

# CFORCE 850XC

## CF800AU-2A OWNER'S MANUAL

### READ THIS MANUAL CAREFULLY

It contains important safety information

This ATV should not be ridden by anyone under 16 years of age. Passenger under 12 are prohibited.

 **CFMOTO**  
EXPERIENCE MORE TOGETHER

## TABLE OF CONTENTS

|                                                   |     |
|---------------------------------------------------|-----|
| Foreword .....                                    | 1   |
| Vehicle Identification Numbers .....              | 7   |
| Operator Safety .....                             | 8   |
| Safety Training .....                             | 9   |
| Safety Decals and Locations .....                 | 39  |
| Safe Riding Gear .....                            | 43  |
| Features & Controls .....                         | 45  |
| Electrical Switches .....                         | 45  |
| Brake.....                                        | 47  |
| Automatic Transmission Gear Selector.....         | 54  |
| Four Wheel Drive(4WD)System.....                  | 56  |
| Indicators and Warning Lights .....               | 60  |
| Operation .....                                   | 65  |
| Break-In Period .....                             | 65  |
| Pre-Ride Inspection .....                         | 67  |
| Starting the Engine .....                         | 70  |
| Gear Selector Operation and Reverse Driving ..... | 72  |
| Hauling Cargo .....                               | 75  |
| Driving Safely .....                              | 77  |
| Maintenance & Lubrication .....                   | 91  |
| Severe Use Definition .....                       | 91  |
| Maintenance Procedures .....                      | 92  |
| Cleaning & Storage .....                          | 127 |
| Troubleshooting .....                             | 133 |
| Technical Specification.....                      | 143 |
| Periodic Maintenance Schedule and Icon Key .....  | 150 |



# **FOREWORD**

## **WELCOME**

Thank you for purchasing a CFMOTO vehicle, and welcome to our world-wide family of CFMOTO enthusiasts. Be sure to visit us online at [www.cfmoto.com](http://www.cfmoto.com) for the latest news, new product introductions, upcoming events, career opportunities and more.

CFMOTO develops, manufactures, markets and delivers the world's most reliable and cost-effective motorcycles, scooters, all terrain vehicles, utility vehicles, boat and powersports engines. Founded in 1989 and teaming up with more than 1200 companions, CFMOTO has developed 98 vehicle models and 51 engine models, which are distributed in over 70 countries and regions. CFMOTO is edging into the advanced ranks in the world in the powersports industry and aims at supplying super products to dealers and fans globally.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance, and information about major repairs is outlined in the CFMOTO Service Manual. Your CFMOTO dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service needs during, and after, the warranty period.



**ALWAYS USE AN APPROVED  
HELMET AND PROTECTIVE  
GEAR**



**NEVER USE DRUGS  
OR ALCOHOL**

** WARNING**

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

**NEVER:**

- Operate without proper training or instruction.
- Operate on public roads. A collision can occur with another vehicle.
- Operate at speeds too fast for your skill or the conditions.
- Use ALCOHOL or DRUGS before or while driving this vehicle.
- Never carry more than one passenger.

**ALWAYS:**

- Avoid paved surfaces, which may adversely affect the handling and control.
- Use proper riding techniques to avoid vehicle overturn on hills and rough terrain, and when turning.
- Wear eye protection, helmet and protective clothing.

READ THE OWNER'S MANUAL.

FOLLOW ALL INSTRUCTIONS AND WARNINGS.

## **WARNING**

**Read, understand, and follow all of the instructions and safety precautions in this manual and on all product labels. Failure to follow the safety precautions could result in serious injury or death.**

## **WARNING**

**The engine exhaust gas from this product contains Carbon Monoxide, which is deadly gas and could cause headaches, giddy, or lose consciousness, even death.**



## INTRODUCTION

Thank you for purchasing a CFMOTO vehicle, and welcome to join our worldwide family of CFMOTO owners.

We proudly produce an exciting line of utility and recreational products:

- All terrain vehicles (ATVs)
- Utility and Side-by-Side vehicles (patrol, forest protecting and hunting)
- Motorcycles and scooters

CFMOTO, a company which specializes in production of liquid-cooled engines, is the top-level supplier in China. Compared to same displacement of air-cooled engine, engine cooling is more effective, oil temperature is more stable, the engine is more powerful with lower fuel consumption, and has a longer working life.

For safe and enjoyable operation of your vehicle, be sure to follow the instructions and recommendations in this owner's manual. Your manual contains instructions for minor maintenance.

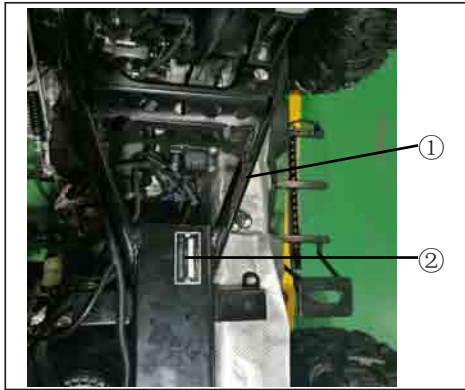
Information about major repairs are outlined in the CFMOTO service manual and should be performed only by CFMOTO service dealer and technician.

Your CFMOTO dealer knows your vehicle best and is interested in your total satisfaction. Be sure to return to your dealership for all of your service.

**Due to constant improvements in the design and quality of production components, some minor discrepancies may result between the actual vehicle and the information presented in this manual. Depictions and/or procedures in this publication are intended for reference use only. The most current version of this manual can be found online at [www.cfmoto-online.cn](http://www.cfmoto-online.cn).**

## VEHICLE IDENTIFICATION NUMBERS

Record your ATV's identification numbers in the spaces provided. Remove the spare key and store in a safe place. Your key can be duplicated only by mating a key blank with one of your existing keys. So if both keys are lost, the complete lock assembly must be replaced.



① **Vehicle identification number:** \_\_\_\_\_

② **Vehicle model number:** \_\_\_\_\_

③ **Engine serial number:** \_\_\_\_\_

## **Operator Safety**

### **WARNING**

Failure to heed the warnings contained in this manual can result in serious injury or death. An ATV is not a toy and can be hazardous to operate. This vehicle handles differently from other vehicles, such as motorcycles and cars. A collision or rollover can occur quickly, even during routine maneuvers like turning, or driving over obstacles, if you fail to take proper precautions.

Read this owner's manual. Understand all safety warnings, precautions and operating procedures before operating this ATV.

### **Age Restrictions**

This vehicle is an ADULT VEHICLE ONLY. Operation is prohibited for anyone under the age of 16.

### **Know Your Vehicle**

As the operator of the vehicle, you are responsible for your personal safety, the safety of others, and the protection of our environment. Read and understand your owner's manual, which includes valuable information about all aspects of your vehicle, including safe operating procedures.

## **Operator Safety**

### **Safety Training**

When you purchased your new ATV, your dealer offered a hands-on safety training course that covers all aspects of vehicle safety. You were also provided with printed materials that explain safe operating procedures. You should review this information on a regular basis. If you purchased a used ATV from a party other than a dealer, you can request safety training from any authorized dealer.

Familiarize yourself with all laws and regulations concerning the operation of this vehicle in your area. CFMOTO strongly advises you to strictly follow the recommended maintenance program outlined in your owner's manual. This preventive maintenance program is designed to ensure that all critical components on your vehicle are thoroughly inspected at specific intervals. The following signal words and symbols appear throughout this manual and on your ATV. Your safety is involved when these words and symbols are used. Be familiar with their meanings before reading the manual.

## **WARNING**

The safety alert symbol indicates a potential personal injury hazard.

## **Operator Safety**

### **WARNING**

The warning alert and icon indicates a potential hazard that may result in serious injury or death.

### **CAUTION**

The caution alert and icon indicates a potential hazard that may result in minor personal injury or damage to the vehicle.

### **CAUTION**

This safety alert indicates a situation that may result in damage to the vehicle.

### **NOTE**

A note will alert you to important information or instructions.

- Read this manual and all labels carefully, and follow the operating procedures described.

## **Operator Safety**

- Never operate an ATV without proper instruction. Take a training course. Beginners should receive training from a certified instructor. Contact an authorized ATV dealer to find the training courses nearest you.
- Never allow anyone under 16 to operate this ATV.
- Never permit a guest to operate the ATV unless the guest has read this manual and all product labels and has completed a certified safety training course.
- Never operate an ATV without wearing an approved helmet that fits properly. Always wear eye protection (goggles or face shield), gloves, boots, a long-sleeved shirt or jacket, and long pants.
- Never consume alcohol or drugs before or while operating an ATV.
- Never operate at excessive speeds. Travel at speeds appropriate for the terrain, visibility and operating conditions, and your experience.
- Never attempt wheelies, jumps or other stunts.
- Always inspect your ATV before each use to make sure it's in safe operating condition.
- Always follow the inspection and maintenance procedures and schedules outlined in your owner's manual.

## **Operator Safety**

- Always keep both hands on the handlebars and both feet on the footrest of the ATV during operation.
- Always travel slowly and use extra caution when operating on unfamiliar terrain. Be alert to terrain conditions.
- Never operate on excessively rough, slippery, or loose terrain.
- Always follow proper turning procedures as described in this manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at excessive speeds.
- Always have the ATV inspected by an authorized dealer if it's been involved in an accident.
- Never operate on hills too steep for the ATV or for your abilities. Practice on smaller hills before attempting larger hills.
- Always follow proper procedures for climbing hills. Check the terrain carefully before ascending a hill.
- Never climb hills with excessively slippery or loose surface. Shift your weight forward.
- Never open the throttle suddenly or make sudden gear changes.
- Never go over the top of a hill at high speed.

## **Operator Safety**

- Always follow proper procedures for going downhill and for braking on hills. Check the terrain carefully before you start down a hill. Shift your weight backward. Never go down a hill at high speed. Avoid going down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.
- Always follow proper procedures for crossing the side of a hill. Avoid hills with excessively slippery or loose surfaces. Shift your weight to the uphill side of the ATV. Never attempt to turn the ATV around on any hill until you've mastered (on level ground) the turning technique outlined in this manual. Avoid crossing the side of a steep hill when possible.
- Always use proper procedures if you stall or roll backwards while climbing a hill. To avoid stalling, maintain a steady speed when climbing a hill. If you stall or roll backwards, follow the special procedure for braking described in this manual. Always dismount on the uphill side, or to either side if the ATV is pointed straight uphill. Turn the ATV around and remount following the procedure described in this manual.



## **Operator Safety**

- Always check for obstacles before operating in a new area. Never attempt to operate over large obstacles, such as rocks or fallen trees. Always follow proper procedures when operating over obstacles as described in this manual.
- Always be careful of skidding or sliding. On slippery surfaces like ice, travel slowly and use extra caution to reduce the chance of skidding or sliding out of control.
- Avoid operating the ATV through deep or fast-flowing water. If it's unavoidable, travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.
- Wet brakes may have reduced stopping ability. Test your brakes after leaving water. If necessary, apply them lightly several times while driving slowly to allow friction to dry out the pads.
- Always check for obstacles or people behind the ATV before operating in reverse. When it's safe to proceed in reverse, move slowly and avoid turning at sharp angles.

## **Operator Safety**

- Always use the size and type of tires specified for your ATV, and always maintain proper tire pressure.
- Never modify an ATV through improper installation or use of accessories.
- Never exceed the stated load capacity for your ATV. Cargo must be properly distributed and securely attached. Reduce speed and follow the instructions in this manual for carrying cargo or towing. Allow a greater distance for braking.
- Always remove the ignition key when the vehicle is not in use to prevent unauthorized use or accidental starting.
- Children or pets shall not be carried on the racks.
- Never touch running parts, such as wheels, drive shaft, etc.

**FOR MORE INFORMATION ABOUT ATV SAFETY, PLEASE CONTACT YOUR DEALER.**

## **Operator Safety**

### **Equipment Modifications**

CFMOTO is concerned with the safety of our customers and for the general public. Therefore, we strongly recommend that consumers do not install on an ATV, any equipment that may increase the speed or power of the vehicle, or make any other modifications to the vehicle for these purposes. Any modifications to the original equipment of the vehicle create a substantial safety hazard and increase the risk of body injury. The warranty on your ATV is terminated if any equipment has been added to the vehicle, or if any modifications have been made to the vehicle, that increase its speed or power.

## **NOTE**

The addition of certain accessory equipment which may change the handling and performance characteristics of the vehicle include, but are not limited to; mowers, plow blades, oversize tires, sprayers, large racks, lift kits and trailers. Use only approved accessories, and familiarize yourself with their function and effect on the vehicle.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Operating this ATV without proper instruction.

#### **WHAT CAN HAPPEN**

The risk of an accident is greatly increased if the operator does not know how to operate the ATV properly in different situations and on different types of terrain.

#### **HOW TO AVOID THE HAZARD**

Beginning and inexperienced operator should complete the certified training course offered by dealer.

Operators should regularly practice the skills learned in the course and the operating techniques described in the owner's manual.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Failure to follow the age recommendations for this ATV.

#### **WHAT CAN HAPPEN**

Severe injury and/or death could occur if a child under the minimum age recommendation operates an ATV. Even though a child may be within the recommended age group for operating some ATVs, he/she may not have the skills, abilities or judgment needed to operate an ATV safely and could be susceptible to accident or injury.

#### **HOW TO AVOID THE HAZARD**

Operation is prohibited for anyone under 16 years of age.

### **WARNING**

#### **POTENTIAL HAZARD**

Carrying passengers more than the rated passenger capacity.

#### **WHAT CAN HAPPEN**

This is a 2-person ATV. Only 1 passenger is allowed. Carrying 2 or more passengers greatly reduces the operator's ability to balance and control the ATV, which could cause an accident and injury to the operator and/or passengers.

#### **HOW TO AVOID THE HAZARD**

Never carry 2 or more passengers on this ATV.

## Operator Safety

### **⚠ WARNING** **POTENTIAL HAZARD**

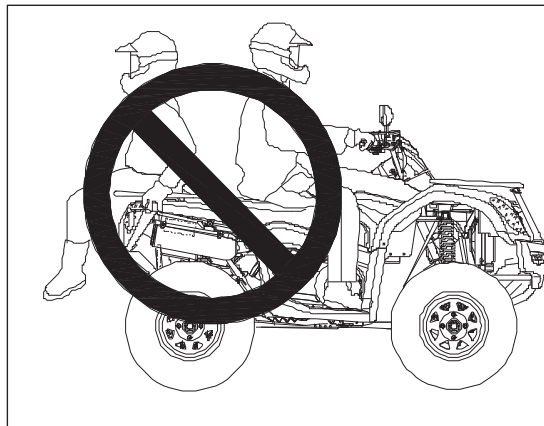
Carrying a passenger in the rear rack.

### **WHAT CAN HAPPEN**

A passenger riding in the rear rack could be ejected from the vehicle unexpectedly or may contact moving moving components, both of which can result in severe injury or death.

### **HOW TO AVOID THE HAZARD**

Never allow passengers to ride in the rear rack.



## Operator Safety

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Operating this ATV without wearing an approved helmet, eye protection, and protective clothing.

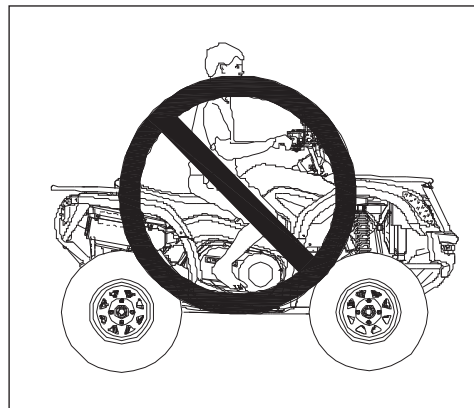
#### **WHAT CAN HAPPEN**

Operating an ATV without an approved helmet increases the risk of a severe head injury or death in the event of an accident. Operating without eye protection could result in an accident and could increase the chance of a severe eye injury in the event of an accident.

#### **HOW TO AVOID THE HAZARD**

Always wear an approved helmet that fits properly.

Always wear eye protection (goggles or face shield), gloves, long-sleeved shirt or jacket, and long pants.



## **Operator Safety**

### **⚠ WARNING** **POTENTIAL HAZARD**

Operating the ATV after consuming alcohol or drugs.

### **WHAT CAN HAPPEN**

Consumption of alcohol and/or drugs could seriously affect operator judgment. Reaction time may be slower and operator balance and perception could be affected. Consumption of alcohol and/or drugs before or while operating an ATV could result in an accident causing severe injury or death.

### **HOW TO AVOID THE HAZARD**

Never consume alcohol or drugs before or while operating an ATV.





## **Operator Safety**

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

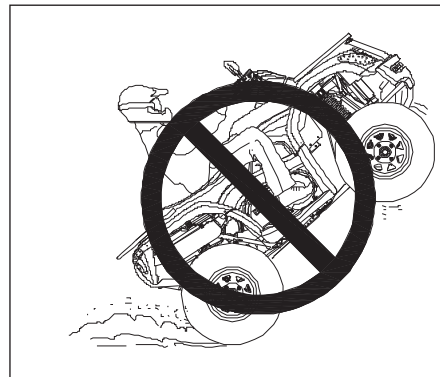
Operating the ATV at excessive speeds.

#### **WHAT CAN HAPPEN**

Excessive speed increase the operator's chance of losing control of the ATV, which can result in an accident.

#### **HOW TO AVOID THE HAZARD**

Always operate the ATV at a speed that's proper for the terrain, visibility and operating conditions, and your experience.



### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Attempting wheelies, jumps and other stunts.

#### **WHAT CAN HAPPEN**

Attempting stunts increases the chance of an accident, including an overturn.

#### **HOW TO AVOID THE HAZARD**

Never attempt wheelies, jumps, or other stunts. Avoid exhibition driving.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Failure to inspect the ATV before operating. Failure to properly maintain the ATV.

#### **WHAT CAN HAPPEN**

Poor maintenance increases the possibility of an accident or equipment damage.

#### **HOW TO AVOID THE HAZARD**

Always inspect your ATV before each use to make sure it's in safe operating condition.

Always follow the inspection and maintenance procedures and schedules described in the owner's manual.

### **WARNING**

#### **POTENTIAL HAZARD**

Removing hands from the handlebars or feet from the footrests during operation.

#### **WHAT CAN HAPPEN**

Removing even one hand or foot can reduce ability to control the vehicle or could cause loss of balance and ejection from the ATV.

If the operator's foot is not firmly planted on the footrest, it could come into contact with the rear wheels and lead to accident or injury.

#### **HOW TO AVOID THE HAZARD**

Always keep both hands on the handlebars and both feet on the footrests of the ATV during operation.

## Operator Safety

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

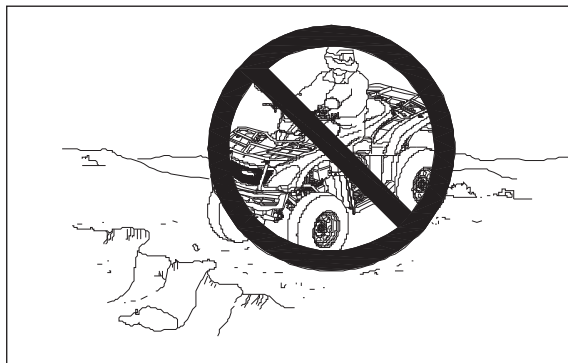
Failure to use extra caution when operating the ATV on unfamiliar terrain.

#### **WHAT CAN HAPPEN**

Unfamiliar terrain may contain hidden rocks, bumps, or holes that could cause loss of control or overturn.

#### **HOW TO AVOID THE HAZARD**

Travel slowly and use extra caution when operating on unfamiliar terrain. Always be alert to changing terrain conditions.



## Operator Safety

### **⚠️ WARNING**

#### **POTENTIAL HAZARD**

Failure to use extra caution when operating on excessively rough, slippery or loose terrain.

#### **WHAT CAN HAPPEN**

Operating on excessively rough, slippery or loose terrain could cause loss of traction or loss of control, which could result in an accident or overturn.

#### **HOW TO AVOID THE HAZARD**

Do not operate on excessively rough, slippery or loose terrain until you've learned and practiced the skills necessary to control the ATV on such terrain. Always use extra caution on rough, slippery or loose terrain.



## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Turning improperly.

#### **WHAT CAN HAPPEN**

Improper turns could cause loss of control and lead to a collision or overturn.

#### **HOW TO AVOID THE HAZARD**

Always follow proper procedures or turning as described in the owner's manual. Practice turning at slow speeds before attempting to turn at faster speeds.

Never turn at excessive speed.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating on excessively steep hills.

#### **WHAT CAN HAPPEN**

The vehicle may overturn.

#### **HOW TO AVOID THE HAZARD**

Never operate on hills too steep for the ATV or for your abilities. Never operate the ATV on hills steeper than 22°.

Practice on smaller hills before attempting large hills.

## Operator Safety

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Climbing hills improperly.

#### **WHAT CAN HAPPEN**

Improper hill climbing could cause loss of control or overturn.

#### **HOW TO AVOID THE HAZARD**

Always follow proper procedures for climbing hills as described in the owner's manual.

Always check the terrain carefully before ascending any hill.

Never operate the ATV on hills steeper than 22°. Never climb hills with excessively slippery or loose surfaces. Shift your weight forward. Never open the throttle suddenly while traveling uphill. The ATV could flip over backwards. Never go over the top of any hill at high speed. An obstacle, a sharp drop, or another vehicle or person could be on the other side of the hill.



## Operator Safety

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Traveling downhill improperly.

#### **WHAT CAN HAPPEN**

Improperly descending a hill could cause loss of control or overturn.

#### **HOW TO AVOID THE HAZARD**

Always follow proper procedures for travelling down hills as described in the owner's manual.



### **NOTE**

A special technique is required when braking while traveling downhill. Always check the terrain carefully before descending a hill. Shift your weight backward. Never travel down a hill at high speed. Avoid traveling down a hill at an angle, which would cause the vehicle to lean sharply to one side. Travel straight down the hill when possible.

## Operator Safety

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Improperly crossing hills and turning on hills.

#### **WHAT CAN HAPPEN**

Improperly crossing or turning on hills could cause loss of control or overturn.

#### **HOW TO AVOID THE HAZARD**

Never attempt to turn the ATV around on any hill until you've mastered the turning technique on level ground as described in the owner's manual.

Use extra caution when turning on any hill. Avoid crossing the side of a steep hill.

#### **WHEN CROSSING THE SIDE OF A HILL:**

Always follow proper procedures as described in the owner's manual.

Avoid hills with excessively slippery or loose surfaces. Shift your weight to use uphill side of the ATV.





## Operator Safety

### **⚠ WARNING**

#### **POTENTIAL HAZARD**

Stalling, rolling backwards or improperly dismounting while climbing a hill.

#### **WHAT CAN HAPPEN**

The vehicle could overturn.

#### **HOW TO AVOID THE HAZARD**

Maintain steady speed when climbing a hill.

#### **IF ALL FORWARD SPEED IS LOST:**

Keep your weight uphill. Apply the front brake. When fully stopped, apply the brake as well, then shift the gear to the park position.

#### **IF THE ATV BEGINS ROLLING BACKWARD:**

Keep weight uphill. Never apply engine power.

Never apply the while rolling backwards.

Apply the front brake. When fully stopped, apply the as well, and shift the gear to parking.

Dismount on uphill side, or to either side if ATV is pointed straight uphill.

Turn the ATV around and remount, following the procedure described in the owner's manual.



## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Improperly operating over obstacles.

#### **WHAT CAN HAPPEN**

Operating over obstacles could cause loss of control or overturn.

#### **HOW TO AVOID THE HAZARD**

Before operating in a new area, check for obstacles.

Avoid operating over large obstacles such as rocks and fallen trees when possible. If unavoidable, use extreme caution and always follow proper procedures as outlined in the owner's manual.

## **Operator Safety**

### **⚠️ WARNING**

#### **POTENTIAL HAZARD**

Skidding or sliding.

#### **WHAT CAN HAPPEN**

Skidding or sliding can cause loss of control. If the tires regain traction unexpectedly, the ATV could overturn.

#### **HOW TO AVOID THE HAZARD**

On slippery surfaces such as ice, travel slowly and use extra caution to reduce the chance of skidding or sliding out of control.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Overloading the ATV or carrying/towing cargo improperly.

#### **WHAT CAN HAPPEN**

Overloading and towing can cause changes in vehicle handling, which could lead to loss of control or an accident.

#### **HOW TO AVOID THE HAZARD**

Never exceed the stated load capacity for this ATV.

Cargo should be properly distributed and securely attached. Reduce speed when carrying cargo or pulling a trailer. Allow a greater distance for braking.

Always follow the instructions in the owner's manual for carrying cargo or pulling a trailer.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Operation the ATV through deep or fast-flowing water.

#### **WHAT CAN HAPPEN**

The tires may float, causing loss of traction and loss of control, which lead to an accident or overturn.

#### **HOW TO AVOID THE HAZARD**

Avoid operating the ATV through deep or fast-flowing water. If it is unavoidable to enter water that exceeds the recommended maximum depth, travel slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes. Wet brakes may have reduced stopping ability.

Always test the brakes after leaving water. If necessary, apply brakes several times while driving slowly to dry out the pads.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Improperly operating in reverse.

#### **WHAT CAN HAPPEN**

The ATV could collide with an obstacle or person, resulting in severe injury.

#### **HOW TO AVOID THE HAZARD**

Before shifting into reverse gear, always check for obstacles or people behind the ATV. When it's safe to proceed, back slowly.

### **WARNING**

#### **POTENTIAL HAZARD**

Operating this ATV with improper tires, or with improper or uneven tire pressure.

#### **WHAT CAN HAPPEN**

Use of improper tires, or operation of the ATV with improper or uneven tire pressure, could cause loss of control or accident.

#### **HOW TO AVOID THE HAZARD**

Always use the size and type of tires specified in the owner's manual for the ATV. Always maintain proper tire pressure.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Operating the ATV with improper modifications.

#### **WHAT CAN HAPPEN**

Improper installation of accessories or modification of the ATV may cause changes in handling which could lead to an accident.

#### **HOW TO AVOID THE HAZARD**

Never modify the ATV through improper installation or use of accessories. All parts and accessories added to the vehicle must be genuine parts or equivalent components designed for use on this ATV and should be installed and used according to approved instructions. Consult your dealer for more information.

## **Operator Safety**

### **WARNING**

#### **POTENTIAL HAZARD**

Operating on frozen bodies of water.

#### **WHAT CAN HAPPEN**

Severe injury or death can result if the ATV and or the operator fall through the ice.

#### **HOW TO AVOID THE HAZARD**

Never operate the ATV on a frozen body of water.



## **Operator Safety**

### **WARNING**

Leaving the keys in the ignition can lead on unauthorized use of the vehicle resulting in serious injury or death. Always remove the ignition key when the vehicle is not in use.

### **WARNING**

After any overturn or accident, have a qualified service dealer inspect the entire vehicle for possible damage, including (but not limited to) brakes, throttle and steering systems.

### **WARNING**

Safe operation of this rider-active vehicle requires good judgement and physical skills.

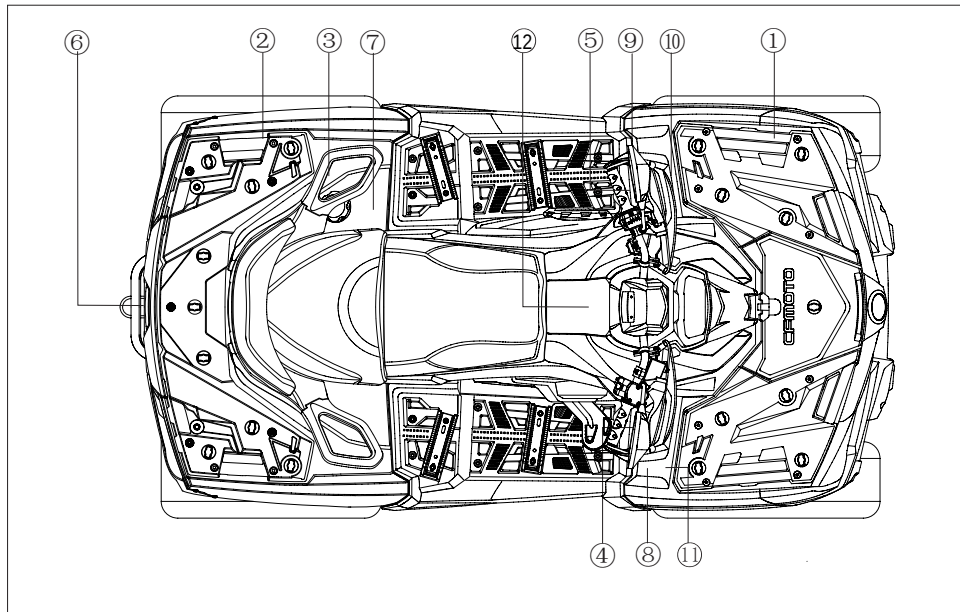
Persons with cognitive or physical disabilities who operate this vehicle have an increased risk of overturn and loss of control, which could result in severe injury or death.

### **WARNING**

Exhaust system components are very hot during and after use of the vehicle. Hot components can cause cause serious burns and fire. Do not touch hot exhaust system components. Always keep combustible materials away from the exhaust system. Use caution when traveling through tall grass, expecially dry grass.

## Safety decals and locations

Warning decals have been placed on the ATV for your protection. Read and follow the instructions on each decal carefully. If a decal becomes illegible or comes off, contact your dealer to purchase a replacement.



## Safety decals and locations

①



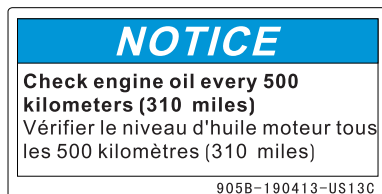
②



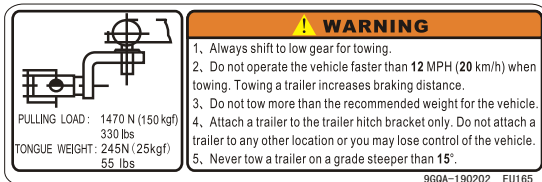
③



⑤



⑥



④



## Safety decals and locations

⑦

### **WARNING**

Improper tire pressure or overloading can cause loss of control.  
Loss of control can result in severe injury or death.

- Cold tire pressure:

Front: **6.5 psi(45 kPa)**

Rear: **6.5 psi(45 kPa)**

9CR6-190101 EU1310

⑧

### **WARNING**



Operating this ATV if you are under the age of **16** increases your chance of severe injury or death.

**NEVER** operate this ATV if you are under age **16**

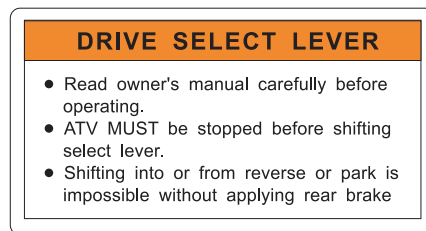
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## Safety decals and locations

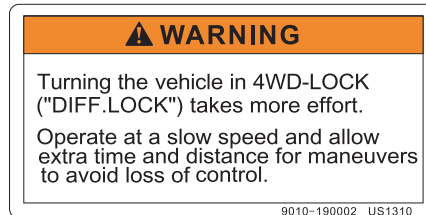
⑨



⑩



⑪



⑫



## **Safety decals and locations**

### **Safe riding gear**

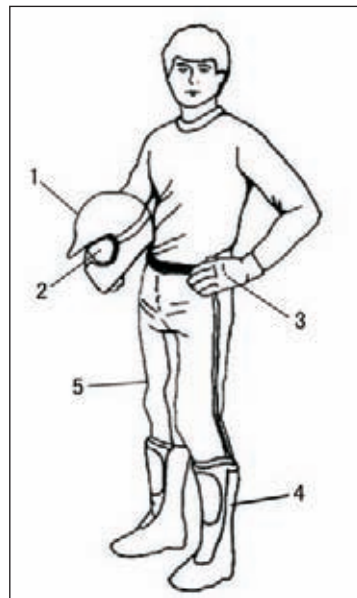
Always wear clothing suited to the type of riding. ATV riding requires special protective clothing for comfort and to reduce the chance of injury.

#### **1. Helmet**

Your helmet is the most important piece of protective gear for safe riding. An approved helmet can prevent a severe head injury.

#### **2. Eye protection**

Do not depend on sunglasses for proper eye protection. A pair of goggles or a helmet face shield offers the protection for your eyes. They should be kept clean and be a shatterproof design.



## **Safety decals and locations**

### **Safe riding gear**

#### **3. Gloves**

Off-road style gloves with knuckle pads are the best for comfort and protection.

#### **4. Boots**

The best footwear is a pair of strong over-the-calf boots with heels, like motocross boots.

#### **5. Clothing**

Always wear long sleeves and long pants to protect arms and legs. Riding pants with kneepads and a jersey with shoulder pads provide the best protection.

## Features & Controls

### Electrical Switches

#### **⚠ WARNING**

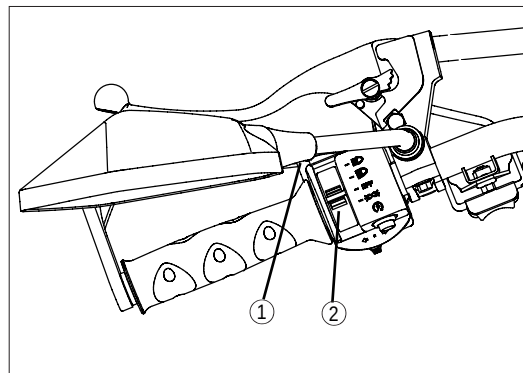
Pressing the override button while the throttle is open can cause loss of control, resulting in severe injury or death. Always release the throttle before pressing the override button.

#### **① Override Button**

The engine is normally limited when operating in 4WD-LOCK. If conditions require more engine power in 4WD-LOCK:

Release the throttle and press the button to override the speed limiting function. While this button is depressed, the override indicator light will come on.

Release the button restores the speed limiting function.





## Features & Controls

### ② Headlight Switch

The headlight switch consists of 3 positions: “ ” 、 “ ” 、 “ OFF ”.

 : When the switch is at this position, Hi beam, front position light, daytime running light, license plate light and instrument light are on.

 : When the switch is at this position, Lo beam, front position light, license plate light and instrument light are on.

OFF: When the switch is at this position, tail light, license plate light are off.

### ③ Turn Switch

Move the switch to  left turn light and left turn signal indicator are on.

Move the switch to  right turn light and right turn signal indicator are on.

### ④ Hazard Switch

Depress the button  front turn lights, rear turn lights and turn signal indicators on dashboard are on.

## CAUTION

Don't use the headlights with the engine turned off for more than 15 minutes. The battery may discharge to the point that the starter motor will not operate properly. If this should happen, remove the battery and recharge it.

## Features & Controls

### ⑤ Horn Button

Press this button, the horn will sound.

### ⑥ Engine Stop Switch

When the switch is at ☒ position, the engine shuts off.

When the switch is at ☑ position, the engine can be started.

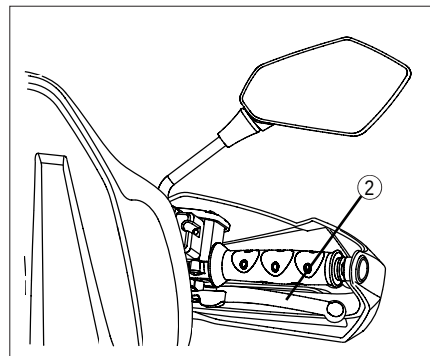
### ⑦ Starter Switch

When the main switch is turned to ON, and the engine stop switch is at ☑, push this button to start the engine.

## ● Brake

### Front Brake Lever

The front brake lever ② is located on the right handlebar. Pull it toward the handlebar to apply the front brake.



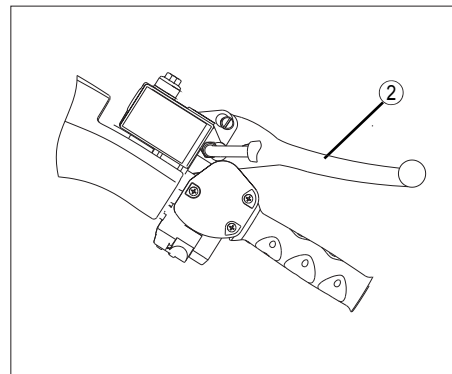
## Features & Controls

### United Brake Pedal and Lever

The united brake pedal ① is located on the right side floor board of the vehicle. Push down on the pedal to apply both the front and united brakes. When squeezed, the lever or pedal should feel firm. A soft brake pedal would indicate a possible fluid leak or low master cylinder fluid level, which must be corrected before riding.

Brake lever ② is located on the right handlebar.

Contact your dealer for proper diagnosis and repairs.



## ⚠ WARNING

Operating the ATV with a spongy brake lever or pedal can result in loss of control, which could cause an accident. Never operate a spongy-feeling brake lever or pedal.

## Features & Controls

Always test brake lever travel master cylinder fluid level before riding. When squeezed, the lever or pedal should feel firm. Any sponginess would indicate a possible fluid leak or low master cylinder fluid level, which must be corrected before riding. Contact your dealer for proper diagnosis and repairs.

## Brake Fluid

Check front brake fluid master cylinder fluid level before each use of the ATV. The front brake master cylinder is located on the right handlebar.

The brake fluid reservoir is near the right passenger footrest. The front brake fluid level can be viewed through an indicator window on the side of the master cylinder. When fluid level is lower than the ① “lower” mark, refill with the same type of brake fluid as necessary.



## ⚠ WARNING

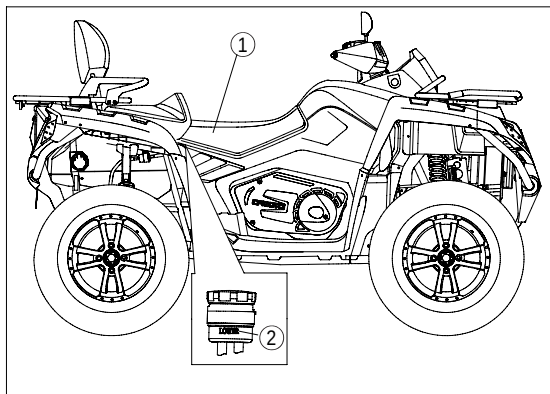
An over-full master cylinder may cause brake drag or brake lock-up, which could result in serious injury or death. Maintain brake fluid at the recommended level. Do not overfill.

## Features & Controls

### Footbrake Fluid Level Check

#### NOTE

Remove the seat ①, and then check the fluid level. When checking the fluid level, the ATV must be on level ground with the handlebars straight. If fluid level is lower than the “lower” mark ②, add DOT4 brake fluid. Don't overfill.



#### ⚠ WARNING

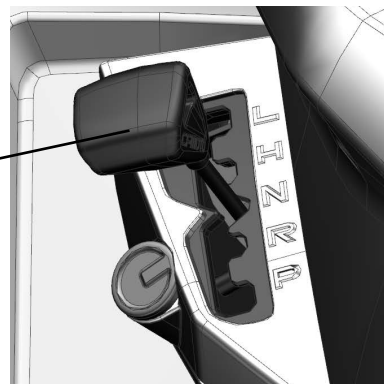
Never store or use a partial bottle of brake fluid. Brake fluid is hygroscopic, meaning it rapidly absorbs moisture from the air. The moisture causes the drop of boiling temperature of the brake fluid, which can lead to early brake fade and the possibility of accident or severe injury. After opening a bottle of brake fluid, always discard any unused portion.

## Features & Controls

### Parking

To park the ATV, stop the engine, shift the gear selector Lever ② into the park position.

(**CAUTION** :When shifting the transmission in PARK, always push the brake pedal). Shake the vehicle forward and backward to verify that park is engaged.



### Important Safeguards

- Never depend on the parking feature alone if the ATV is parked on a hill. Always block the wheels on the downhill side of the ATV to prevent rolling. It's recommended to park the ATV on a level ground.

## Features & Controls

### ● Fuel Tank

Fuel tank cap is located at the rear of the vehicle. Open the fuel tank cap ① to fill fuel.



## Features & Controls

### • Fuel safety

#### **WARNING**

Gasoline is highly flammable and explosive under certain conditions.

- Always exercise extreme caution whenever handling gasoline.
- Always refuel with the engine stopped, and outdoors or in a well ventilated area.
- Never carry a plastic container with gasoline in the racks while riding. Static electricity between the rack and container could cause a spark.
- Do not smoke or allow open flames or sparks in or near the area where refueling is performed, or where gasoline is stored.
- Do not overfill the tank. Do not fill the tank neck.
- If gasoline spills on your skin or clothing, immediately wash it off with soap and water and change clothing.
- Never start the engine or let it run in an enclosed area. Engine exhaust fumes are poisonous and can cause loss of consciousness or death in a short time.

#### **WARNING**

The engine exhaust from this product contains chemicals known to cause cancer, birth defects or other reproductive harm. Operate this vehicle only outdoors or in well-ventilated areas.



## Features & Controls

### ● Automatic Transmission Gear Selector

The transmission gear selector ① is located on the left side of the vehicle.

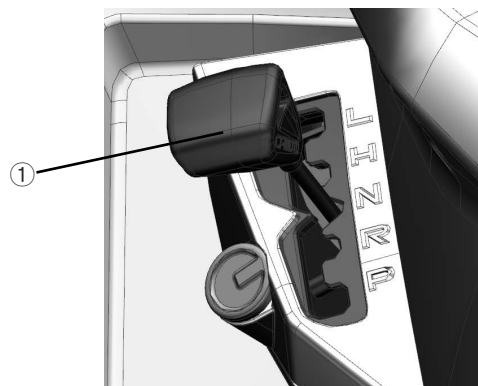
L: Low Gear

H: High Gear

N: Neutral

R: Reverse

P: Park



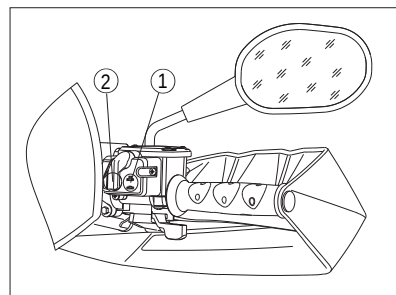
## Features & Controls

### **⚠ CAUTION**

Shifting gears with the engine speed above idle or while the vehicle is moving could cause transmission damage. To change gears, stop the vehicle, and with the engine idling, move the lever to the desired gear. Push the brake pedal before attempting to shift into reverse or park. Whenever the ATV is left unattended, always place the transmission in the PARK position. Maintaining shift linkage adjustment is important to assure proper transmission function. See your dealer if you experience any shifting problems.

### ● **Belt Life**

To extend belt life, use low forward gear in heavy pulling situations and when operating at less than 7 miles per hour (11 kilometers per hour) for extended periods of time. If towing the vehicle is necessary, shift the transmission into neutral for better mobility and to prevent damage to the belt.



## Features & Controls

### ● 'Four Wheel Drive' (4WD) System

This ATV is equipped with an on-command four-wheel drive switch “2WD” / ” 4WD” ① and a front diff-lock switch “LOCK” / ” 4WD” .

- Two-wheel drive (2WD)  : Power is supplied to the rear wheels only.
- Four-wheel drive (4WD)  : Power is supplied to the rear and frontwheels.
- Four-wheel drive with the front diff locked (4WD-LOCK)  : Power is supplied to the rear and front wheels when the front diff is locked. Unlike the 4WD mode, all wheels turn at the same speed.



## Features & Controls

### NOTE

- When the switch is set to “ LOCK ”, the front diff-lock indicator light will flash until the front diff is locked.
- When the indicator light is flashing, turning the handlebar left and right will help the front gear lock to engage.
- Riding before the front diff lock is properly engaged (e.g., when the indicator light is flashing) will cause the engine speed to be limited until engagement is complete.
- When the ATV is in 4WD-LOCK, the maximum traveling speed is limited to 30 km/h (19 mph) .

If conditions require full engine power to be available, press the override switch to disable the 4WD-LOCK speed limiter.

## Features & Controls

### ● Throttle Lever ①

Once the engine is running, movement of the throttle lever will increase the engine speed. Regulate the speed of the machine by varying the throttle position. Because the throttle is spring loaded, the machine will decelerate, and the engine will return to an idle any time the hand is removed from the throttle lever. Before starting the engine, check the throttle to be sure it is operating smoothly. Make sure it returns to the idle position as soon as the lever is released.



## ⚠ CAUTION

Check the operation of the throttle lever before you start the engine. If it does not work smoothly, check for the cause. Correct the problem before riding the ATV. Consult your dealer if you can't find or solve the problem or solve the problem yourself.

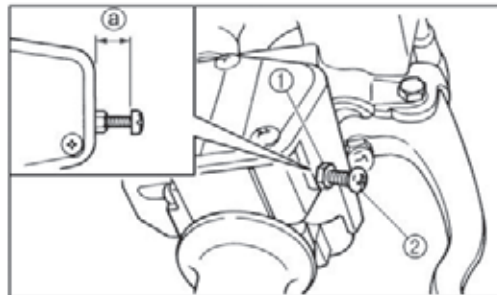
## Features & Controls

### Mechanical Speed Limiter ②

A mechanical speed limiter keeps the throttle from fully opening, even when the throttle lever is pushed to maximum travel. Turning in the screw limits the throttle lever travel, which reduces the maximum engine power available and decreases the maximum speed of the ATV.

#### NOTE

Your ATV is set for maximum throttle opening from the factory.



#### ⚠ CAUTION

Always loosen the locking nut ① before each adjustment. Do not turn the adjusting screw out more than ① 12 mm (0.47 in). Always make sure the throttle lever free play remains adjusted to 3~5mm (0.12~0.20 in). Tighten the locking nut when the adjustment is completed.

## Features & Controls

### ● Main Switch

The functions of the main key switch positions are as follows:

- ⌚ : All electrical circuits are switched on. The engine can be started at this position. The key cannot be removed in this position.
- ⊗ : All electrical circuits are switched off. The key can be removed in this position.



### ● Indicator and Warning Lights

#### Four-wheel-drive indicator

- ⚡ : This indicator comes on when the 2WD / 4WD switch is set to the “4WD” position.
- ⚡ : This indicator comes on when the 2WD / 4WD switch is set to the “4WD” and LOCK/4WD switch is set to LOCK.
- ⚡ : This indicator comes on when the 2WD / 4WD switch is set to the “2WD” position.

① Turning Indicators ⇐ ⇨

② Seat Belt Indicator Light  (Reserved function)

③ High Beam Indicator: 

This indicator light comes on when moving the head light switch to 

④ EPS (optional) : 

EPS Indicator: When the ATV is equipped with EPS system, the indicator light is on.

⑤ Engine Oil Pressure : 

⑥ **Neutral Indicator "N"**

This indicator light comes on when the gear selector is in the N position.

⑦ Coolant Temperature Gauge: 

⑧ Parking Brake : 

⑨ EFI Indicator : 

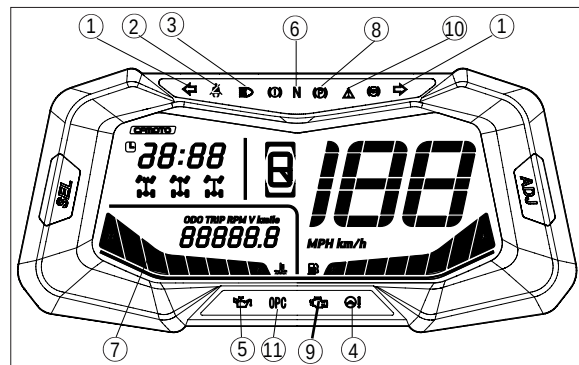
This indicator light comes on when troubles occur in EFI system.

⑩ Override Indicator : 

This indicator light comes on when pressing the override switch. Always exercise caution to use override button.

⑪ Operator Presence Control: OPC

Vehicle will alarm immediately once the driver leaves the seat when the engine is running.



- |                             |                             |
|-----------------------------|-----------------------------|
| ① Turning indicators        | ⑥ Neutral indicator "N"     |
| ② Seat belt indicator light | ⑦ Coolant temperature gauge |
| ③ High beam Indicator       | ⑧ Parking brake             |
| ④ EPS indicator             | ⑨ EFI indicator             |
| ⑤ Engine oil pressure       | ⑩ Override indicator        |
|                             | ⑪ Operator presence control |



## Dashboard

- ① Wheel drive indicator: Corresponds to the drive method of the right handlebar. When it's in 2WD, it shows “”,  
When it's in 4WD, it shows “”,  
When it's in 4WD +LOCK, it shows “”.

Tip: Only after the drive method have been switched will the wheel light indicator will on because the front gear case has the synchronizing apparatus.

- ② Gear Indicators: L, H, N, R, P
- ③ Fuel gauge: show the gas remain in the tank, F means it's full, E means the standby gas . And when the petrol indicator enters the red area, it means the gas that remains can drive for 50km(31 miles) at most, and gas needs to be added as soon as possible.
- ④ Speed Indication Devices: Indicate the speed in number way, the method can switch between metric and inch.

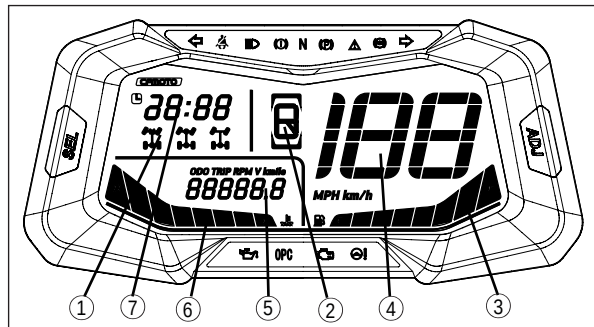
## Dashboard

- ⑤ Mileage Display: Indicate the mileage in number way, the work method can switch between kilometers and miles.
- ⑥ Coolant Temperature Gauge: Shows the current coolant temperature, C is the low temperature area, H is the high temperature area, Both overflow and overhigh are abnormal, idle warm machine is need when it's too cold, and park the bike when it's too hot to prevent the coolant from being boiling. Keep the coolant temperature in a normal range.

## NOTE

If the ATV drive for a long time or in a slope with heavy load, it may lead to the engine overheat.

- ⑦ Clock indicator : Display the current time.



- ① Wheel drive indicator
- ② Gear Indicators
- ③ Fuel gauge
- ④ Speed Indication Devices
- ⑤ Mileage display
- ⑥ Coolant temperature gauge
- ⑦ Clock indicator

## Features & Controls

### CAUTION

- The engine may overheat if the ATV is overloaded. If this happens, reduce the load to specification
- After restarting, make sure that the temperature indicator is in the green area of side C. Continuous use while the temperature indicator is in the red area of side H may cause damage to the engine.

**Speedometer:** shows the riding speed. In ODO mode , press and hold SEL to toggle between KM and MP.

**Odometer / Trip/ Rpm / Hour / Volt / Brightness Display:** This dashboard section can be toggled using the 'SEL' button to display the accumulated distance traveled in miles/kilometers; 'ODO' -The accumulated vehicle distance traveled, 'TRIP' - The trip distance traveled, 'RPM' – The engine speed in Revolutions Per Minute (RPM), 'H'-The engine hour meter records the engine running time, 'V' – Battery voltage, 'L-I-g-H—5' - Dashboard brightness (5 levels).

**Fuel Gauge:** Indicate the remaining amount of the gasoline in the fuel tank .“F”indicates the total amount of fuel is 19L .When the indicator reaches the first point of the red mark fuel ,should be refilled as soon as vossible.The red mark indicates that the remaining fuel is only about 4.0L.

## **Operation**

### **Break-In Period**

The break-in period for your new ATV is very important. Careful treatment of a new engine will result in more efficient performance and longer life for the engine. Perform the following procedures carefully.

### **CAUTION**

Do not load or tow cargo during the first 600km of use, do not operate at full throttle. It may damage engine parts or decrease engine life if excessively increase throttle during the first 600km of use.

Do not run engine with throttle over 1/2 open during the first 300km of use. Do not run engine with throttle over 3/4 open during the first 300km to 600km of use.

Operate this ATV in normal condition after break-in period.

Use of any oils other than those recommended may cause serious engine damage. CFMOTO recommends the use of special oil for 4-stroke engine: SAE 15W/40 SG.

## **Operation**

### **Perform the following procedures before operation:**

1. Fill the fuel tank with gasoline.
2. Put ATV on a level surface to check the oil level . Add recommended oil if necessary to maintain the oil level between the minimum and maximum level marks of the dipsticks .
3. Drive slowly at first . Select an open area that allows room to familiarize yourself with vehicle operation and handling.
4. Vary throttle positions . Do not operate at sustained idle.
5. Perform regular checks on fluid levels , controls and areas outlined on the daily pre-ride inspection checklist.
6. Pull only light loads.
7. During the break-in period, change both the oil and oil filter at 20hours or 750km.

## Operation

### ● Pre-Ride Inspection

#### **WARNING**

If a proper inspection is not done before each use, severe injury, or death could result. Always inspect the vehicle before each use to ensure it is in proper operating condition.

| <b>Pre-Ride Checklist</b>  |                                 |                 |
|----------------------------|---------------------------------|-----------------|
| <b>Item</b>                | <b>Remarks</b>                  | <b>See Page</b> |
| Brake system/ lever travel | Ensure proper operation         | 47, 113         |
| Brake fluid                | Ensure proper level             | 49              |
| Front suspension           | Inspect, lubricate if necessary | 123             |
| Rear suspension            | Inspect, lubricate if necessary | 123             |

## Operation

| Pre-Ride Checklist           |                                    |          |
|------------------------------|------------------------------------|----------|
| Item                         | Remarks                            | See Page |
| Steering                     | Ensure free operation              |          |
| Tires                        | Inspect condition and pressure     | 146      |
| wheels / fasteners           | Inspect, ensure fastener tightness | 117      |
| Frame nuts, bolts, fasteners | Inspect, ensure fastener tightness |          |
| Fuel and oil                 | Ensure proper levels               | 93       |
| Coolant level                | Ensure proper levels               | 99       |
| Coolant hoses                | Inspect for leaks                  |          |
| Throttle                     | Ensure proper operation            | 109      |
| Gear shifting                | Ensure proper operation            |          |
| Indicator lights/ switches   | Ensure proper operation            | 60, 61   |

## Operation

| <b>Pre-Ride Checklist</b> |                                          |                 |
|---------------------------|------------------------------------------|-----------------|
| <b>Item</b>               | <b>Remarks</b>                           | <b>See Page</b> |
| Air filter                | Inspect, clean                           | 105             |
| Air box sediment tube     | Drain deposits whenever visible          |                 |
| Headlamp                  | Check operation                          | 121             |
| Brake light/tail lamp     | Check operation                          | 122             |
| Riding gear               | Wear helmet, gloves, protective clothing | 43              |



## **Operation**

### **Starting the Engine**

#### **Starting a Cold Engine**

#### **⚠ WARNING**

Engine exhaust contains poisonous carbon monoxide and can cause loss of consciousness resulting in severe injury or death. Never run an engine in an enclosed area.

#### **⚠ CAUTION**

Operating the vehicle immediately after starting could cause engine damage. Allow the engine to warm up for several minutes before operating the vehicle.

#### **Starting a Cold Engine**

1. Apply the united brake pedal.
2. Turn ignition switch to “”, turn stop switch to “ ON ”.
3. Shift gear selector into the neutral position.

## Operation

### NOTE

- When the gear selector is in neutral position, if indicator light on dashboard does not come on, ask your dealer to inspect its electric circuit or adjust gear-shifting system.
- Engine can be started in any gear if united brake pedal is applied. However it is recommended to shift into neutral or park before starting the engine.
- Completely close throttle lever and start the engine by pushing the start switch.
- If the engine fails to start, release the start switch, then push the start switch again. Pause a few seconds before the next attempt. Each cranking should be as short as possible to preserve battery energy. Do not crank the engine more than 10 seconds on each attempt.
- If the battery is discharged, disassemble the battery to recharge.
- Continue warming up the engine until it idles smoothly before starting the ATV.

### CAUTION

See the “Break-In Period” section prior to operating the engine for the first time.

## Operation

### ● Gear selector ① operation and reverse driving

#### **⚠ CAUTION**

Before shifting, you must return the throttle lever to the closed position and stop the ATV. Otherwise, the transmission may be damaged.

#### **Shifting: Neutral to High**

1. Return the throttle lever to the closed position and stop the ATV.
2. Push the button at the right side of gear selector, then shift to High by moving the gear selector along the shift guide.

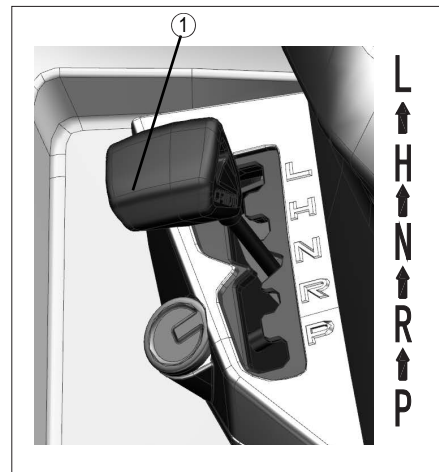
#### **NOTE**

Make sure that the gear selector is completely shifted into position.

3. Open the throttle lever gradually.

#### **Shifting: High to Low**

1. Return the throttle lever to the closed position and stop the ATV completely.
2. Apply the united brake pedal, shift to Low by moving the gear selector along the shift guide.



## Operation

### Shifting: Low to High

1. Return the throttle lever to the closed position and stop the ATV completely.
2. Push the button at the right side of gear selector , then shift to High by moving the gear selector along the shift guide.

### Shifting: Neutral(N) to Reverse;

#### NOTE

The gear selector cannot be shifted into reverse (R) without applying the united brake .

1. Return the throttle lever to the closed position and stop the ATV completely.
2. Apply the united brake pedal, push the button at the right side of gear selector.
3. Shift the gear from neutral (N) to reverse by moving the gear selector along the shift guide.



## Operation

### NOTE

- 3.1 When in reverse, the reverse indicator light should be on.
- 3.2 The indicator light should be on in accordance with actual gear position , if the light does not come on, ask your dealer to inspect.
- 3.3 Due to the synchronizing mechanism in the engine , the light may not come on until ATV starts moving.
4. Check behind for people or obstacles, then release the united brake pedal.
5. Open the throttle lever gradually and continue to watch rear while moving backward.

### WARNING

When you shift into reverse, make sure there are no obstacles or people safeple behind you. When it is safe to proceed, go slowly.

### Shifting: Reverse to Park

1. Return the throttle lever to the closed position and stop the ATV completely.
2. Apply the united brake pedal.
3. Shift from reverse to park by moving the gear selection along the shift guide.

## **Operation**

### **• HAULING CARGO**

#### **WARNING**

Overloading the vehicle, carrying or towing cargo improperly, can alter vehicle handling and may cause loss of control or brake instability. Always follow these precautions when hauling cargo:

- Never exceed the stated load capacity for this vehicle.
- Reduce speed.
- When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions.
- Weight distribution in the rear rack should be as far forward and as low as possible. Carrying a high load raises the center of gravity and creates a less stable operating condition. Reduce load weight when cargo is high. When handling off-centered loads that cannot be centered, secure the load and operate with extra caution.
- All loads must be secured before operation. Unsecured loads may shift and create unstable operating conditions, which could result in loss of control of the vehicle. Always be sure that the rear rack is lowered.

## **Operation**

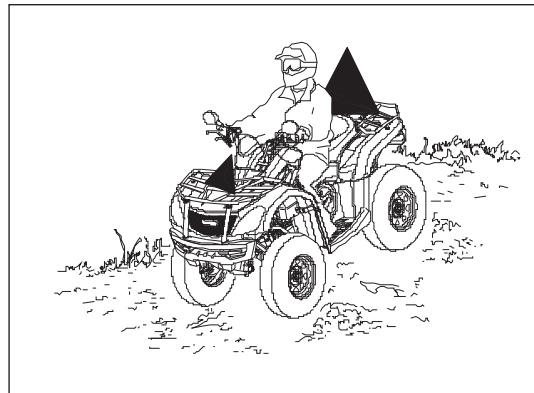
- When operating with loads extending beyond the rack. Stability and maneuverability may be adversely affected, causing the machine to overturn.
- Carrying a load on only the front rack or the rear rack may cause an imbalanced condition and increase the possibility of vehicle overturn. Balance loads proportionally between the front rack and the rear rack, but do not exceed the stated load capacity.
- Use extreme caution when applying brakes with a loaded vehicle. Avoid terrain or situations that may require backing downhill.
- Always attach the tow to the hitch point.
- The vehicle should never exceed 10 mph (16 km/h) while towing a load on a level surface. Vehicle speed should never exceed 5mph (8 km/h) when towing loads in rough terrain, while cornering, or ascending, or descending a hill.
- Do not obstruct the headlight when loading the front rack.
- Always use low gear when towing or carrying loads.

## **Load Distribution**

Your ATV has been designed to carry or tow a certain amount of load. Always read and understand the the load distribution warnings listed on the warning labels, and never exceed the specified weights. Cargo weight should be mounted as low as possible. When operating over rough or hilly terrain, reduce speed and cargo to maintain stable driving conditions.

## Operation

1. Always load the cargo as far forward as possible.
2. Always operate the vehicle with extreme caution whenever hauling or towing loads. Balance, handling, and control may be affected.
3. Slow down.



## Driving Safely

### Driving Procedures

1. Sit upright with both feet on the footrests and both hands on the handlebars.
2. Start the engine and allow it to warm up, apply the brakes, then shift the transmission into gear.
3. Check your surroundings and determine your path of travel.
4. Release the brakes.



## Operation

5. Slowly depress the throttle with your right thumb and begin driving. Vehicle speed is controlled by the amount of throttle opening.
6. Drive slowly. Practice maneuvering and using the throttle and brakes on level surfaces.

## Making Turns

To make a turn, steer in the direction of the turn, leaning your upper body to the inside of the turn while supporting your weight on the outer footrest. This technique alters the balance of traction between the wheels, allowing turn to be made smoothly. The same leaning technique should be used for turning in reverse.

## NOTE

Practice making turns at slow speeds before attempting to turn at faster speeds.



## ⚠ WARNING

Turning at sharp angles or at excessive speeds can result in vehicle overturn and lead to serious injury. Avoid turning at sharp angles. Never make turns at high speeds.

## Operation

### Driving on Slippery Surfaces

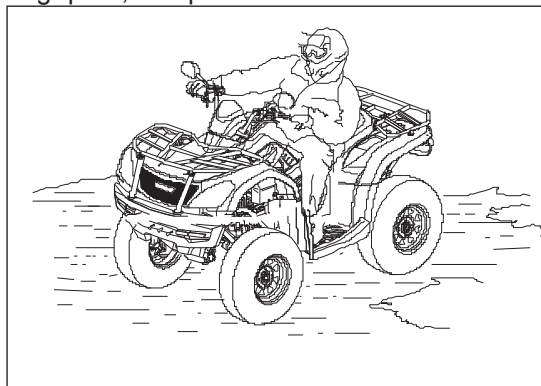
Whenever riding on slippery surfaces such as wet trails or loose gravel, or during freezing weather, follow these precautions:

1. Slow down when entering slippery areas.
2. Maintain a high level of alertness, reading the trail and avoiding quick, sharp turns which can cause skids.
3. Correct a skid by turning the handlebars in the direction of the skid and shifting your body weight forward.
4. Driving with 4WD engaged can assist in controlling the vehicle in slippery areas.

### **⚠ CAUTION**

Severe damage to drive train may occur if the 4WD is engaged while the wheels are spinning.

Always engage 4WD when the wheels have traction or are at rest.



### **⚠ WARNING**

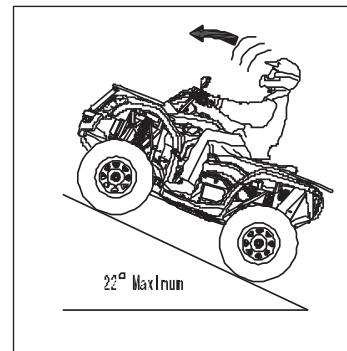
Failure to exercise care when operating on slippery surfaces can result in loss of tire traction and cause loss of control, accident, and serious injury or death. Never apply the brakes during a skid. Do not operate on excessively slippery surfaces. Always reduce speed and use additional caution.

## Operation

### Driving Uphill

Whenever traveling uphill, follow these precautions:

1. Always travel straight uphill.
2. Avoid steep hills (22° maximum) .
3. Keep both feet on the footrests.
4. Shift your weight forward.
5. Proceed at a steady rate of speed and throttle opening.
6. Remain alert and be prepared to take emergency action. This may include quick dismounting of the vehicle.



#### **If all forward speed is lost:**

Keep your weight uphill.

Apply the front brake. When fully stopped, apply brake as well, then shift gear selector into park position.

#### **If the ATV begins rolling backwards:**

Keep your weight uphill. Never apply engine power. Never apply the brake while rolling backwards. Apply the front brake. When fully stopped, apply the brake as well, and then shift gear selector into park position.

Dismount on uphill side, or to either side if ATV is pointed straight uphill. Turn the ATV around and remount. .

## Operation

### **WARNING**

Braking and handling are greatly affected when operating in hilly terrain. Improper procedure could cause loss of control or overturn and result in serious injury or death.

Avoid climbing steep hills (22° maximum).

Use extreme caution when operating on hills, and follow proper operating procedures outlined in the owner's manual.

## Sidehilling

### **WARNING**

Improperly crossing hills or turning on hills can result in loss of control or vehicle overturn, resulting in severe injury or death. Avoid crossing the side of a hill when possible. Follow proper procedures as outlined in the owner's manual. Sidehilling can be a dangerous type of driving and should be avoided if at all possible. If you do enter into a situation where sidehilling is necessary, follow these precautions:

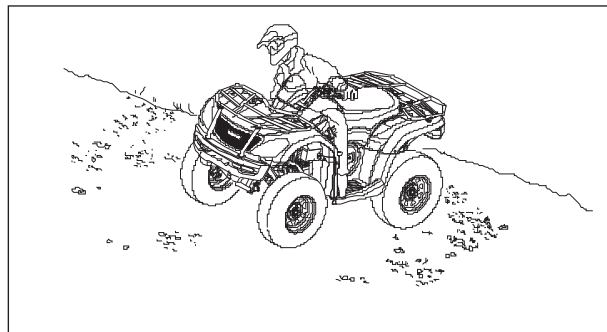
1. Slow down.
2. Lean into the hill, transferring your upper body weight toward the hill while keeping your feet on the footrests.

## Operation

3. Steer slightly into the hill to maintain vehicle directions.

## NOTE

If the vehicle begins to tip, quickly turn the front wheel downhill, if possible, or dismount on the uphill side immediately!



## Driving Downhill

Whenever descending a hill, follow these precautions:

1. Proceed directly downhill.
2. Shift your weight to the rear of the vehicle.
3. Slow down.
4. Apply the brakes slightly to aid in slowing.

Familiarize yourself with operation of the brake lever.



## Operation

### **⚠ WARNING**

Excessive speed can cause loss of control and lead to serious injury or death. Always operate slowly when traveling downhill.

## Turning Around on a Hill

### **⚠ WARNING**

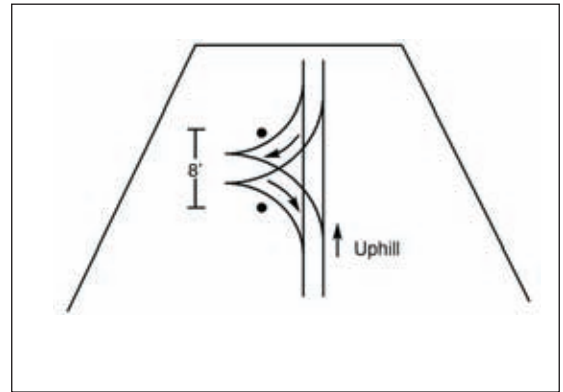
Improper hill climbing procedures could cause loss of control or overturn and result in serious injury or death.

Avoid climbing steep hills ( $22^{\circ}$  maximum) .

Use extreme caution when operating on hills, and follow proper operating procedures outlined in the owner's manual. If the vehicle stalls while climbing a hill, never back it down the hill!

One maneuver that can be used when it is necessary to turn around while climbing a hill is the K-turn:

1. Release the throttle, then apply the hand and foot brake while keeping your body weight uphill.
2. Shift the gear selector lever to the low gear position. Shut off the engine.
3. Keeping the hand brake applied, dismount on the uphill side of the vehicle, or on the right side if the vehicle is pointing straight uphill.



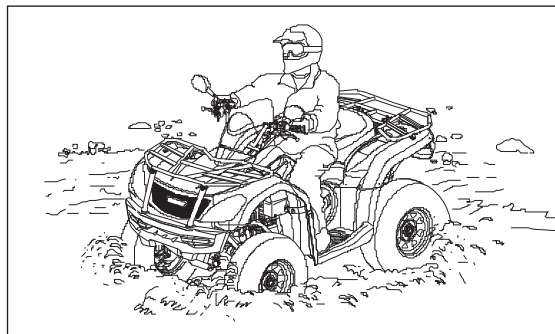
## Operation

4. Keeping the hand brake applied and staying uphill of the vehicle, turn the handlebars full left (front brake will be closest to you).
5. Slowly releasing the hand brake lever, allow the vehicle to roll around to the right until it's pointing across the hill or slightly downward.
6. Keeping the hand brake applied, remount the vehicle from the uphill side and shift the gear selector lever to the parking position, keeping your body weight uphill.
7. Restart the engine. Press the foot brake, and shift the gear selector lever to low gear position.
8. Release the brakes and proceed slowly downhill, controlling speed with the brakes, until the vehicle is on more level ground.

## Driving Through Water

Your ATV can operate through water with a maximum recommended depth equal to the bottom of the footrests. Follow these procedures when operating through water:

1. Determine water depths and current before crossing.
2. Choose a crossing where both banks have gradual inclines.



## **Operation**

3. Proceed slowly, avoiding rocks and obstacles if possible.
4. After crossing, dry the brakes by applying light pressure to the lever while driving slowly until braking action is normal.

## **NOTE**

Avoid operating the vehicle through deep or fast-flowing water. If you cannot avoid water that exceeds the recommended maximum depth, go slowly, balance your weight carefully, avoid sudden movements, and maintain a slow and steady forward motion. Do not make sudden turns or stops, and do not make sudden throttle changes.

After running the vehicle in water, it's critical to have it serviced as outlined in the maintenance chart. The following areas need special attention: engine oil, trasmission oil, front and rear gear cases and all grease fittings.

## **NOTE**

If water has been ingested into the CVT housing, the drive belt will likely slip and poor performance will result. To expel water and dry the CVT housing; Drain the CVT housing, place the vehicle in neutral, and raise the engine rpm for several minutes to dry the CVT components. Release the throttle and shift into low gear, then test the performance of the vehicle. Repeat as necessary until you are satisfied all the water has been expelled. Contact your dealer if vehicle performance issues continue.



## Operation

### **⚠ WARNING**

Major engine damage can result if the vehicle is not thoroughly inspected after operation in water. Perform the services outlined in the maintenance chart.

If your vehicle becomes immersed or is operated in water that exceeds the footrest level, take it to your dealer for service before starting the engine.

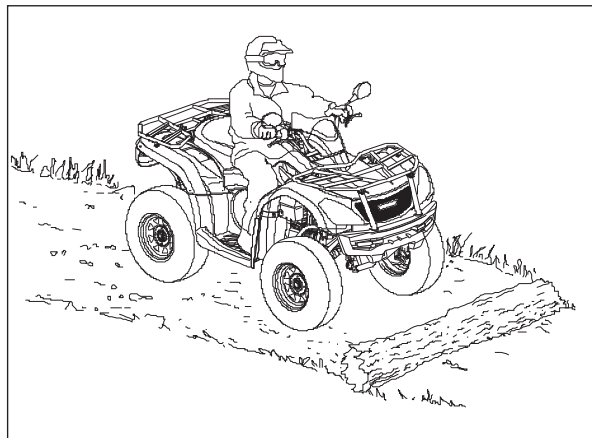
### **Driving Over Obstacles**

Be alert! Look ahead and learn to read the terrain. Be constantly alert for hazards such as logs, rocks and low hanging branches.

### **⚠ WARNING**

Severe injury or death can result if your vehicle comes in contact are immediately visible.

Travel with caution in unfamiliar terrain.



## Operation

### Driving in Reverse

Follow these precautions when operating in reverse:

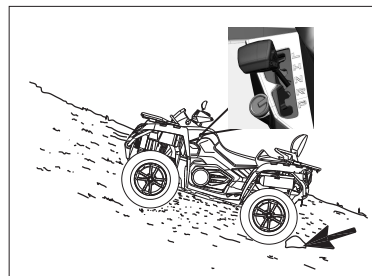
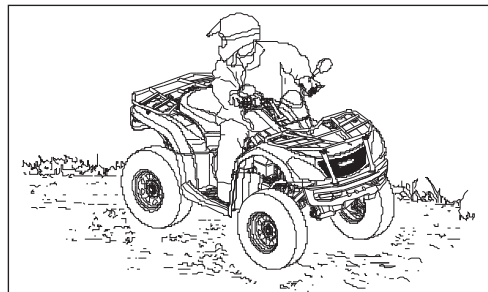
1. Always avoid backing downhill.
2. Back slowly.
3. When in reverse, apply the brakes lightly for stopping.
4. Avoid turning at sharp angles in reverse.
5. Never open the throttle suddenly while backing.

### **⚠ WARNING**

Failure to use caution when operating in reverse can result in serious injury or death. Before shifting into reverse, always check for obstacles or people behind the vehicle. When it's safe to proceed, back slowly. Do not use the override switch unless additional power is required for vehicle movement. Use with caution. Avoid backing on inclines, and avoid turning at sharp angles.

### **NOTE**

Your ATV is equipped with a reverse speed limiter. The override button should be used with caution as rearward vehicle speed is greatly increased. Do not operate at wide open throttle. Open the throttle just enough to maintain a desired speed.



## Operation

### **⚠ WARNING**

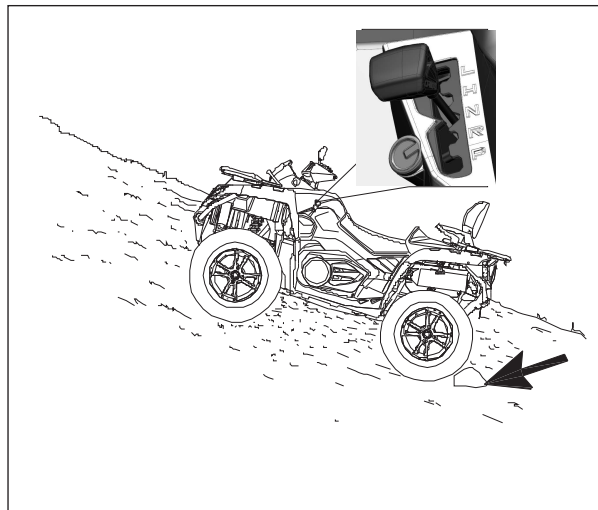
Excessive throttle operation while in the speed limit mode may cause fuel to build in the exhaust, resulting in engine popping and/or engine damage.

The rear output shaft is locked when the transmission is in the parking position.

### **Parking on an Incline**

Avoid parking on an incline if possible. If it's unavoidable, follow these:

1. Turn the engine off.
2. Place the gear selector to parking position.
3. Always block the rear wheels on the downhill side as illustrated.



## **TURNING YOUR ATV**

To achieve maximum traction while riding in 2WD or 4WD, the two rear wheels are mounted solidly on one axle and turn together at the same speed. Furthermore, when riding in 4WD-LOCK ( DIFF.LOCK ), the front wheels also turn together at the same speed. Therefore, unless the wheel on the inside of the turn is allowed to slip or lose some traction, the ATV will resist turning. A special turning technique must be used to allow the ATV to make turns quickly and easily. It is essential that this skill be learned first at low speed.

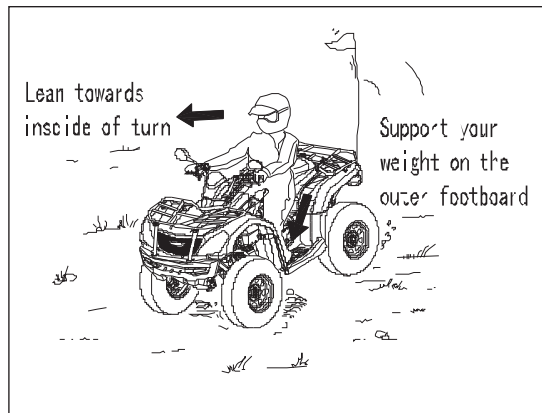
### **WARNING**

Always follow proper procedures for turning as described in this Owner's Manual. Practice turning at low speeds before attempting to turn at faster speeds. Do not turn at speeds too fast for your skills or the conditions. Operate at a slow speed and allow extra time and distance for maneuvers when in 4WD-LOCK (DIFF.LOCK). As you approach a curve, slow down and begin to turn the handlebars in the desired direction. As you do so, put your weight on the footboard to the outside of the turn (opposite your desired direction) and lean your upper body into the turn. Use the throttle to maintain an even speed through the turn. This maneuver will let the wheel on the inside of the turn slip slightly, allowing the ATV to make the turn properly.

## Operation

This procedure should be practiced at slow speed many times in a large area with no obstacles. If an incorrect technique is used, your ATV may continue to go straight. If the ATV doesn't turn, come to a stop and then practice the procedure again. If the riding surface is slippery or loose, it may help to position more of your weight over the front wheels by moving forward on the seat. Once you have learned this technique you should be able to perform it at higher speeds or in tighter curves. Improper riding procedures such as abrupt throttle changes, excessive braking, incorrect body movements, or too much speed for the sharpness of the turn may cause the ATV to tip. If the ATV begins to tip over to the outside while negotiating a turn, lean more to the inside. It may also be necessary to gradually let off on the throttle and steer to the outside of the turn to avoid tipping over.

Remember: Avoid higher speeds until you are thoroughly familiar with the operation of your ATV.



## **Maintenance & Lubrication**

### **Accessories**

Auxiliary power outlets provide 12V power for operating accessories such as hand held spot lights.

Please consult with your dealer.

### **Periodic maintenance chart**

Careful periodic maintenance will help keep your vehicle in the safest, most reliable condition.

Inspection, adjustment and lubrication of important components are explained in the periodic maintenance chart. Inspect, clean, lubricate, adjust, and replace parts as necessary. When inspection reveals the need for replacement parts, please use genuine parts available from your dealer.

## **NOTE**

Service and adjustments are critical. If you are not familiar with safe service and adjustment procedures, have a qualified dealer perform these operations.

Maintenance intervals in the following chart are based upon average riding conditions and an average vehicle speed of approximately 10 miles or 20 km per hour. Vehicles subjected to severe use must be inspected and serviced more frequently.

### **Severe use definition**

- Frequent immersion in mud, water or sand
- Racing or race-style high RPM use
- Prolonged low speed, heavy load operation
- Extended idle
- Short trip cold weather operation

Pay special attention to the oil level. A rise in oil level during cold weather can indicate contaminants collecting in the oil sump or crankcase. Change oil immediately if the oil level begins to rise. Monitor the oil level, and if it continues to rise, discontinue to use and determine the cause or see your dealer.

## Maintenance & Lubrication

### Maintenance Procedures

#### Engine oil

Always check and change the engine oil at the intervals outlined in the Maintenance Schedule.

#### Engine oil check

1. Place the ATV on a level surface.
2. Start the engine and let it idle for 20~30 seconds. Stop the engine.
3. Wait a short period for the oil to settle.
4. Remove access cover ① by grasping the lower left portion and pulling firmly.
5. Unscrew the oil dipstick ② out and wipe off with a clean cloth.
6. Insert the dipstick into the oil filler hole. Do not reinstall it.
7. Remove the dipstick again and check the oil level indication. Maintain the oil level between the upper and lower indicators.
8. Reinstall the dipstick into the oil filler hole, hand-tighten it, and reinstall the access cover.



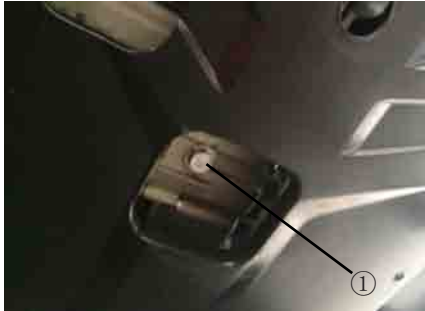
#### NOTE

Access cover grommets may come loose. Ensure they are in place before reinstalling the cover.

## Maintenance & Lubrication

### Engine oil change

1. Place the ATV on a level surface.
2. If the engine was running, wait a sufficient period for the oil to settle and cool.
3. Place an oil pan under the engine to collect the used oil.
4. Remove the engine oil drain bolt ① and drain the oil from the transmission.
5. Place a new sealing washer on the engine oil drain bolt, then assemble and tighten the drain bolt.





## Oil filter replacement

1. Use wrench to unscrew 3 pcs of bolts ① as right picture shows.

Then remove cover ② of oil filter and remove oil filter ③.

2. Install new oil filter on it.

**Attention:** Confirm if O-ring ④ is good and then install it into groove of crankcase correctly.

3. Install new oil filter ③, and use wrench to tighten 3 pcs of bolts ① on cover ② by specified torque.

**NOTE :** Tightening torque of bolt ①: 10 N • m

4. Use new washer to assemble and tighten oil drain bolt as specified torque.

**NOTE :** Tightening torque of drain bolt: 25 N • m

5. Add the specified amount of recommended engine oil, and then insert the engine oil dipstick and tighten it.

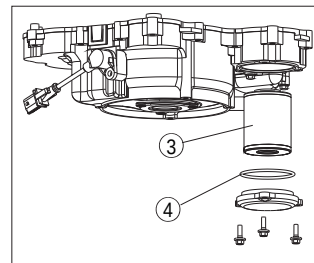
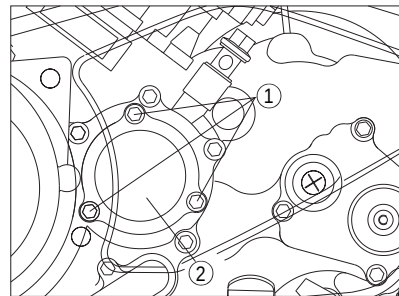
## NOTE :

In case of engine overhaul, oil should be added: 2.6 L;

With oil filter cartridge replacement, oil should be added: 2.5L

6. Start the engine and warm it up for several minutes. While warming up, check for oil leakage. If oil leakage is found, turn the engine off immediately and check for the cause.

7. Turn the engine off, and then check the oil level and correct it if necessary.



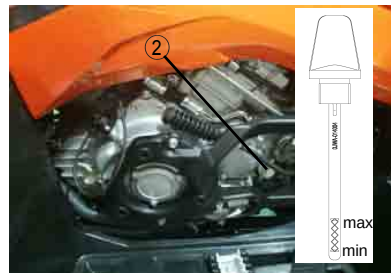
## Maintenance & Lubrication

### Transmission Oil

Always check and change the transmission oil at the intervals outlined in the Periodic Maintenance Chart. CFMOTO recommends the use of SAE 75W/90 GL-5 Transmission Fluid.

#### Oil Check

1. Place the ATV on a level surface.
2. Remove access cover ① by grasping the lower left portion and pulling firmly.
3. Unscrew the oil dipstick ② out and wipe off with a clean cloth.
4. Insert the dipstick into the oil filler hole. Do not reinstall it.
5. Remove the dipstick again and check the oil level indication.  
Maintain the oil level between the upper and lower indicators.
6. Reinstall the dipstick into the oil filler hole, hand-tighten it, and reinstall the access cover.



## Maintenance & Lubrication

### Transmission oil change

1. Place the ATV on a level surface.
2. If the engine was running, wait a sufficient period for the oil to settle and cool
3. Place an oil pan under the engine to collect the used oil.
4. Remove the oil dipstick ②.
5. Remove the oil drain bolt ① and drain the oil.
6. Place a new sealing washer on the oil drain bolt, then assemble and tighten the drain bolt.

**NOTE:** Remove oil dipstick ② first, then remove drain bolt ① , in case the gear oil spill out.

Tightening torque of drain bolt ① : 25 N•m



## Maintenance & Lubrication

### Rear gear case oil

The rear gear case must be checked for oil leakage before each ride. If any leakage is found, have your dealer check and repair the ATV.

### Rear gear oil change

1. Place the machine on a level place.
2. Place a container under the rear gear case to collect the used oil.
3. Remove oil drain bolt ① as right picture shows and drain used oil.
4. Add recommended gear oil into rear gear case.
5. Install and tighten drain bolt as specified torque after adding new gear oil.

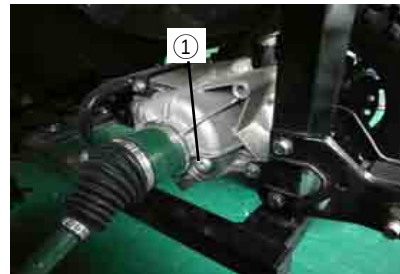
## NOTE

Tightening torque of drain bolt: 23N·m

Periodic oil change: 0.40 L

6. Check if any oil leakage. In case of leakage, please find causes and remove it

**NOTE** : Be sure no foreign material enters the rear gear case.

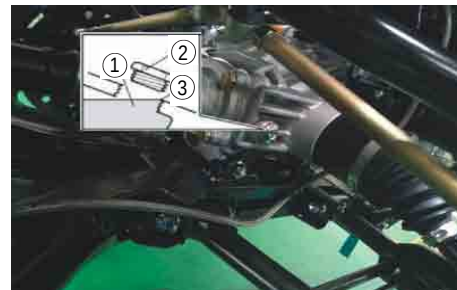


## Maintenance & Lubrication

### Front gear case oil measurement

1. Place the machine on a level place.
2. Remove the oil filler bolt ② and check the oil level ①.  
It should be up to the brim of the hole ③. If the level is low, add sufficient oil to raise it to the specified level.
3. Install the oil filler bolt and tighten it to the specified torque.

**NOTE** Oil filler bolt tightening torque: 23 N · m



### Front gear case oil change

1. Place the machine on a level place.
2. Place a container under the front gear case to catch the oil.
3. Remove oil filler bolt and drain bolt ① at the bottom of front gear case, and drain used oil.
4. Install the drain bolt and tighten it to the specified torque.

### NOTE

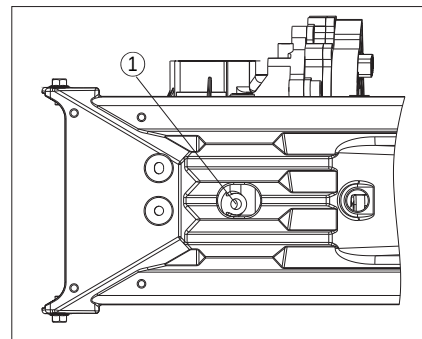
Drain bolt tightening torque: 10 N · m

5. Fill the front gear case with oil.

### NOTE

Periodic oil change: 0.23 L

6. Install the filler bolt ② and tighten it to the specified torque.
7. Check for oil leakage. If oil leakage is found, check for the cause.



## Maintenance & Lubrication

### Cooling system

#### Coolant level check

1. Place the ATV on a level surface.
2. Coolant reservoir ① is located on the front left of the vehicle.  
Check the coolant level in the coolant reservoir when the engine is cold as the coolant level will vary with engine temperature.

#### NOTE

The coolant should be between the upper ③ and lower ④ limit marks.

3. If the coolant is at or below the lower limit mark, remove the reservoir cap ②, add coolant to the upper limit mark, install the reservoir cap, and then install the panel.

#### NOTE

Lowest capacity of coolant reservoir: 0.2 L

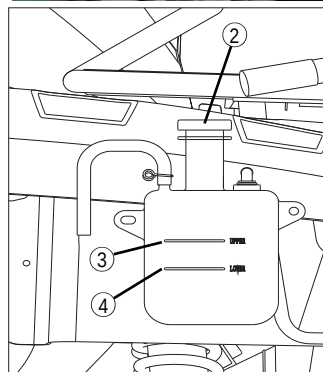
#### ⚠ CAUTION

Hard water or salt water is harmful to the engine. You may use soft water if you can not get distilled water.

#### CAUTION

If water is added, have your dealer check the antifreeze content of the coolant as soon as possible.

The radiator fan operation is completely automatic. It is switched on or off according to the coolant temperature in the radiator.



- ② Reservoir cap
- ③ Upper limit mark
- ④ Lower limit mark

## Maintenance & Lubrication

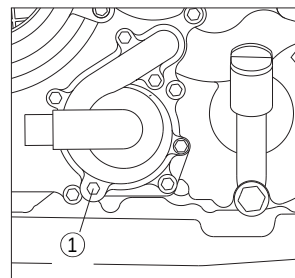
### Changing the coolant

1. Place the ATV on a level surface.
2. Place a container under the engine, and then remove the coolant drain bolt ①. (Use a trough or a similar object to prevent coolant from spilling on the footrest.)
3. Remove the radiator cap.
4. Remove the coolant reservoir cap.

### **⚠ DANGER**

After stop the engine, you cannot remove cap of radiator immediately. Wait for a while to cool down the coolant and then remove radiator cap. Otherwise hot coolant will goes out to hurt people nearby.

5. Disconnect the hose on the coolant reservoir side, and then drain the coolant from the coolant reservoir.
6. After draining the coolant, thoroughly flush the cooling system with clean tap water.
7. Replace the coolant drain bolt washer if it is damaged, and then tighten the coolant drain bolt to the specified torque.



## Maintenance & Lubrication

### NOTE

Coolant drain bolt tightening torque: 10 N•m

8. Install the coolant reservoir hose.

9. Fill the recommended coolant into the radiator until it is full. When filling coolant, at the same time to loosen tapping screw as right picture ① shows in order to drain potential air bubbles inside the coolant hose, until coolant goes out, then tighten the screw .

### NOTE

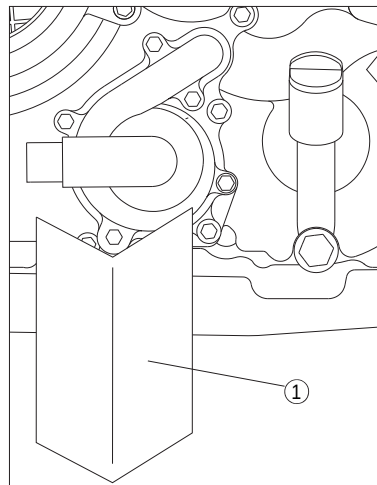
Recommended antifreeze:

High quality ethylene glycol antifreeze containing corrosion inhibitors for aluminum engines. Antifreeze and water mixing ratio:1:1

Coolant capacity: 3.0 L

Coolant change: 2.9 L

Coolant reservoir capacity: 0.38L~0.6L



### ⚠ CAUTION

Hard water or salt water is harmful to the engine.  
Please use CFMOTO recommended coolant.



## Maintenance & Lubrication

10. Install the radiator cap.
11. Start the engine and let it idle for several minutes. Stop the engine, and then check the coolant level in the radiator. If it is low, add more coolant until it reaches the top of the radiator.
12. Fill the coolant reservoir with coolant up to the upper limit.
13. Install the coolant reservoir cap and check for coolant leakage.

### NOTE

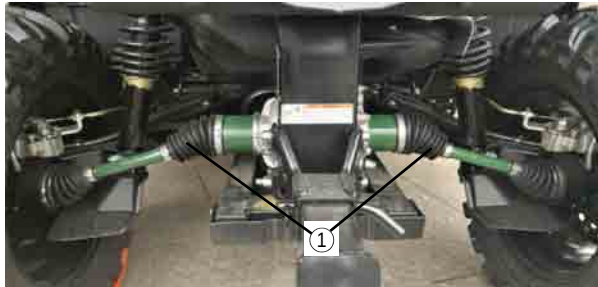
If any leakage is found, have your dealer check the cooling system.

14. Install the panels and the front rack.

#### ● Axle dust boots ①

Check the protective boots for holes or wears.

If any damage is found, have them replaced by your dealer.



## Maintenance & Lubrication

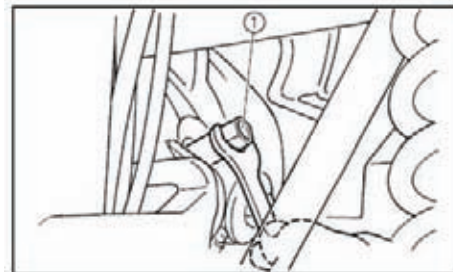
### • Spark plug inspection

#### Removal

1. Remove the panel.
2. Remove the spark plug cap
3. Use the spark plug wrench in the tool kit to remove the spark plug as shown.

#### Inspection

The spark plug is an important engine component and is easy to inspect. The condition of the spark plug can indicate the condition of the engine. The ideal color on the white insulator around the center electrode is a medium-to-light tan color for a ATV that is being ridden normally. Do not attempt to diagnose such problem yourself. Instead, take the ATV to dealer. You should periodically remove and inspect the spark plug because heat and deposits will cause the spark plug to slowly break down and erode. If electrode erosion becomes excessive, or if carbon and other deposits are excessive, you should replace the spark plug with the specified plug.



## Maintenance & Lubrication

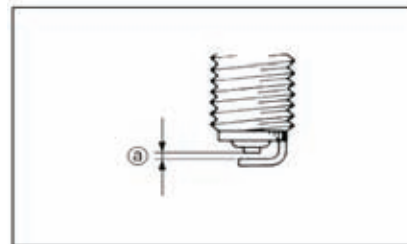
**NOTE** : Specified spark plug: DCPR8E (NGK)

### Installation

Measure the electrode gap with a wire thickness gauge and, if necessary, adjust the gap to specifications.

**NOTE** : Spark plug gap: 0.8mm ~ 0.9 mm

2. Clean the gasket surface. Wipe off any grime from the threads.
3. Install spark plug and tighten to specified torque.



**NOTE** : Tightening torque of spark plug: 20N · m

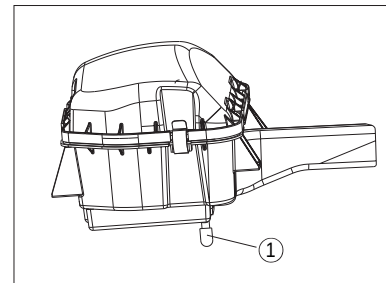
If a torque wrench is not available when you are installing a spark plug, a good estimate of the correct torque is 1/4 to 1/2 turn past finger tight. Have the spark plug tightened to the specified torque as soon as possible.

4. Install the spark plug cap.
5. Install the panel.

## Maintenance & Lubrication

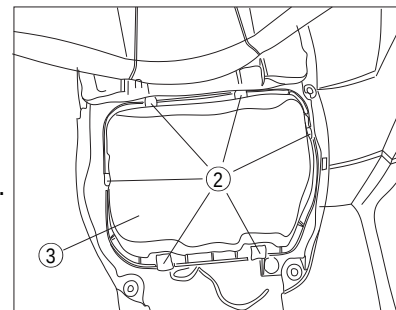
### ● Air filter element cleaning

There is a check hose ① at the bottom of the air filter housing. If dust or water can be viewed in this hose, empty the hose and clean the air filter housing thoroughly. If the vehicle was submerged, please contact your local dealer to check for water inside the engine crankcase.



### Air filter maintenance

1. Remove the seat.
2. Remove the filter housing cover by pulling out each side at the rear of the cover to disengage the plastic latches, then lift up and pull back to remove it.
3. Remove the cover spring clips ② and remove the filter housing cover ③.
4. Loosen the air filter clamp ④ and remove the air filter ⑤.
5. Remove the foam pre-filter ⑥ from the air filter.
6. Wash the foam pre-filter gently with soap and water, and allow it to completely dry.



## Maintenance & Lubrication

7. Inspect the paper air filter and verify it is okay to reinstall. Softly brush off accumulated dust if necessary. Install a new filter as necessary.

## CAUTION

Don't use liquid to wash paper filter element.

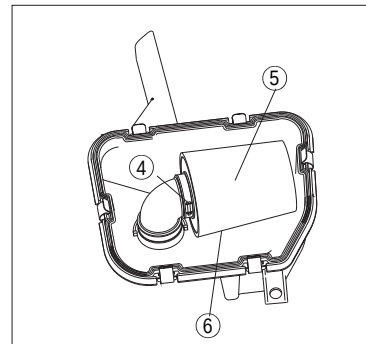
8. Install the pre-filter onto the air filter. Apply a thin film of lubricant on the inside diameter of the air filter rubber seal.
9. Install the air filter and clamp onto the air filter housing inlet. Tighten the clamp securely.
10. Reinstall the air filter housing cover and spring clips. Verify the cover is installed correctly and is sealing properly.

## NOTE

During normal use, the air filter media should be inspected every 25 hours or 750km. The air filter should be replaced every 1500km. The air filter must be checked and replaced more often if the machine is operated in extremely dusty areas or if it becomes wet. Each time air filter maintenance is performed, check the air inlet to the air filter box for obstructions, the fittings of the air filter housing rubber joint, throttle body, and manifold for an airtight seal. Check that all fittings are tightened securely to avoid the possibility of unfiltered air entering the engine.

## DANGER

Do not start engine without air filter element. Non-filtered air will enter into the engine and cause engine wearing and damage. In addition, driving without air filter will also decrease performance and engine overheating.

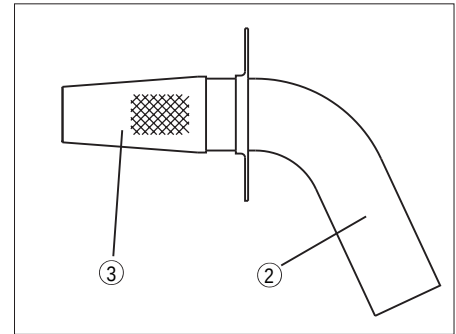
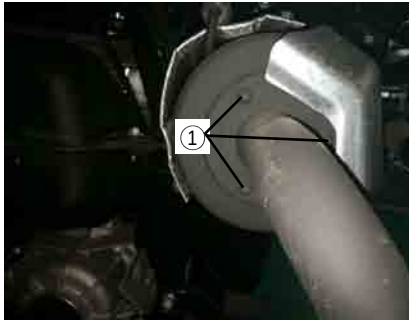


## Maintenance & Lubrication

### Clean spark plug:

Clean spark plug while muffler and exhaust are in normal temperature.

1. Remove nut ①.
2. Remove spark plug arrester ② from muffler.
3. Tap the tailpipe lightly, and then use a wire brush to remove any carbon deposits ③ from the spark arrester portion of the tailpipe.
4. Insert the tailpipe into the muffler and align the bolt holes.
5. Install and tighten the bolts.



## Maintenance & Lubrication

### **⚠ DANGER**

When cleaning the spark arrester: Always let the exhaust system cool prior to touching exhaust components. Do not start the engine when cleaning the exhaust system.

#### ● CVT air-inlet hose cleaning

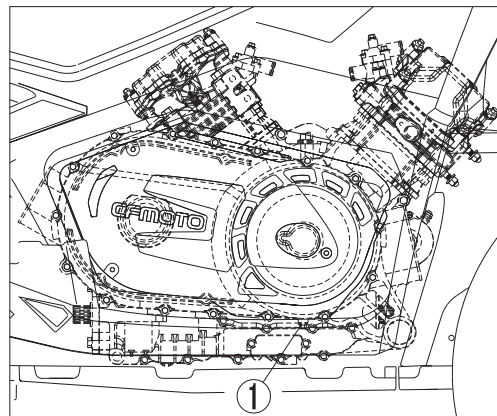
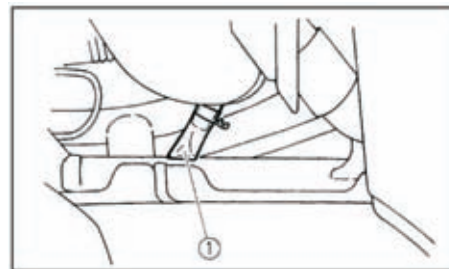
- If dust or water collects in the V-belt cooling duct.
- Check hose, remove the hose ① and clean it.

#### CVT cover drain bolt

After riding in water deep enough to allow it to enter the V-belt case, remove this bolt to drain the water from the case.

### **⚠ WARNING**

If water drains from the V-belt case after removing the bolt, have your dealer inspect the ATV as the water may affect other engine parts.



## **Maintenance & Lubrication**

### **Throttle body adjustment**

The throttle body is a vital part of the engine and requires very sophisticated adjustment. Most adjusting should be left to your dealer who has the professional knowledge and experience to do so. However, the idling speed may be inspected by the owner as a part of the usual maintenance routine. The throttle body was set at the factory after many tests. If the settings are disturbed by someone without sufficient knowledge, poor engine performance and damage may result. Check idle for stability and contact your dealer for service if necessary.

#### **Engine idle adjustment:**

#### **WARNING**

This vehicle is equipped with EFI system, and no need to adjust idle, or performance will be affected. Contact your dealer in case abnormal idle.

#### **NOTE**

Engine idle: 1,300r/min  $\pm$  130r/min ( Heated engine )



## Maintenance & Lubrication

### ● Engine air inlet/outlet valve clearance adjustment

The correct valve clearance changes with use, resulting in improper fuel/air supply or engine noise. To prevent this, the valve clearance must be adjusted regularly. This adjustment however, should be left to a professional service technician.

### NOTE

Adjust the engine idling speed before adjusting the throttle lever free play.

1. Loosen nut ①.
2. Turn adjustment nut ② to lever travel: ③ : 3mm ~ 5 mm
3. Fasten nut ①.

### ● Front brake pad inspection

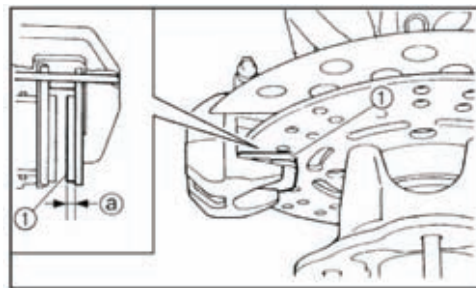
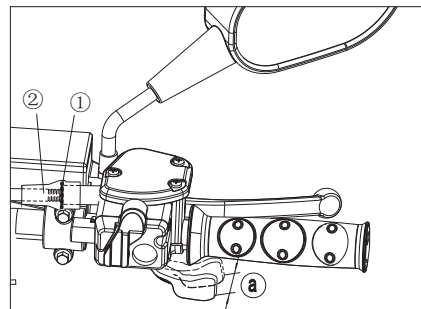
Check the brake pads ① for damage and wear. Have your dealer replace the pads as a set.

### ● United brake pad inspection

Check the brake pads ① for damage and wear. Have your dealer replace the pads as a set.

### NOTE

The wheels need to be removed to check brake pads.



## Maintenance & Lubrication

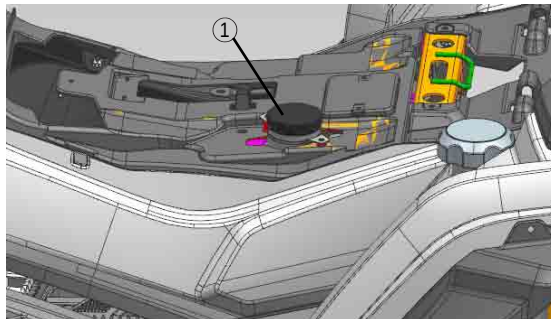
### ● Inspect brake fluid level ①

Remove the seat, and then check the fluid level.

Insufficient brake fluid may let air enter the brake system, possibly causing the brakes to become ineffective.

Before riding, check that the brake fluid is above the lower level and replenish when necessary.

The front brake fluid master cylinder reservoir is located at the right of the handlebar. The united brake fluid master cylinder reservoir is near the united brake pedal.



## **Maintenance & Lubrication**

### **• Inspect brake fluid level**

Observe these precautions:

1. When checking the fluid level, make sure the top of the master cylinder reservoir is level by turning the handlebars.
2. Use only the designated quality brake fluid. Otherwise, the rubber seals may deteriorate, causing leakage and poor brake performance.

## **NOTE**

Recommended brake fluid: DOT 4.

3. Refill with the same type of brake fluid. Mixing fluids may result in a harmful chemical reaction and lead to poor brake performance.
4. Be careful that water does not enter the master cylinder reservoir when refilling. Water will significantly lower the boiling point of the fluid and may result in vapor lock.
5. Brake fluid may deteriorate painted surfaces or plastic parts. Always clean up spilled fluid immediately.
6. Have your dealer check the cause if the brake fluid level goes down.

## Maintenance & Lubrication

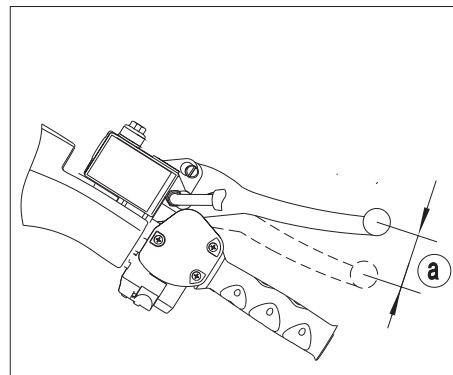
### ● Brake fluid change

Complete fluid replacement should be done only by trained service personnel. Have your dealer replace the following components during periodic maintenance or when they are damaged or leaking.

- Replace the seals every two years ;
- Replace the brake hoses every four years.

### ● Front lever free play

The front brake lever should have a free play of 10 mm (0.4 in) at the lever end. If not, have your dealer check the brake system.



### ⚠ DANGER(After servicing):

- Make sure the brakes operate smoothly and that the free play is correct.
- Make sure the brakes do not drag. Make sure the brakes are not spongy.
- All air must be bled from the brake system. Replacement of brake components requires professional knowledge. These procedures should be performed by your dealer.

## Maintenance & Lubrication

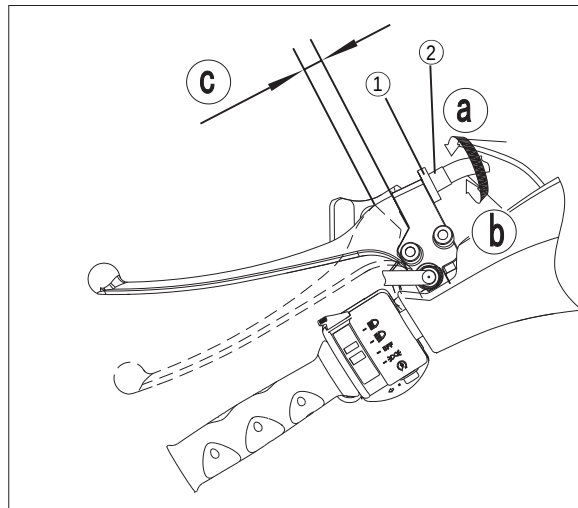
### ● Parking brake lever free play adjustment

The parking brake lever free play ③ should be 0.5mm ~ 2mm;

1. Loosen the locknut ① .
2. Turn the adjusting bolt ② in ④ direction to increase free play, and in direction ⑤ to decrease free play.
3. Tighten the locknut ①.

If correct free play cannot be obtained, ask your dealer to make that adjustment.

- Be sure not to step on the brake pedal.
- Make sure the brake pedal does not move.



## Maintenance & Lubrication

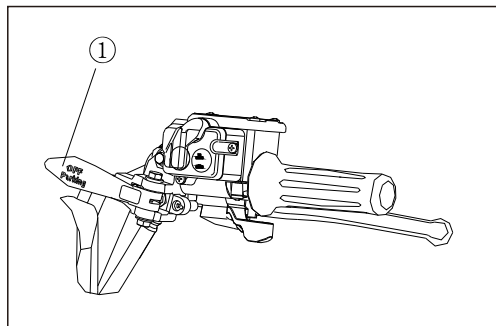
### • Parking brake

When parking, stop the engine and shift the gear selector Lever ① into the park position.

### **⚠WARNING**

Operating the ATV/ Quadricycle while the parking brake is engaged could result in an accident and serious injury or death.

Always check to be sure the parking brake is disengaged before operating.



### **Important Safeguards**

The parking brake may relax if left on for a long period of time. Always block the wheels to prevent rolling.

Never depend on the parking brake alone if the ATV/ Quadricycle is parked on a hill. Always block the wheels on the downhill side of the ATV / Quadricycle to prevent rolling. Another option is to park the ATV /Quadricycle in a sidehill position.

## Maintenance & Lubrication

### • United brake pedal height adjustment

#### NOTE

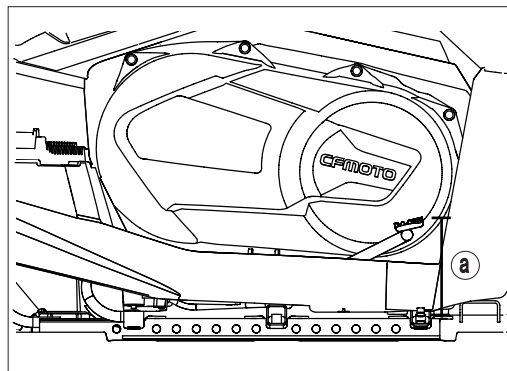
For parking brake , adjust the united brake before inspecting the united brake pads.

The top of the brake pedal should be positioned 95mm ~ 100mm above the top of the footrest. If not, have your dealer to adjust it.

#### **⚠ DANGER**

After servicing :

- Make sure the brakes operate smoothly and that the freeplay is correct.
- Make sure the brakes do not drag.
- All air must be bled from the brake system. Replacement of brake components requires professional knowledge. These procedures should be performed by your dealer.



## MAINTENANCE & LUBRICATION

### Foot brake light switch

Check switch assembly or cable is properly fixed in case light failure.

### Cable inspection and lubrication

#### **⚠ DANGER**

Inspect cables frequently. Replace damaged cables. Lubricate the inner cables and the cable ends. If the cables do not operate smoothly, ask your dealer to replace them.

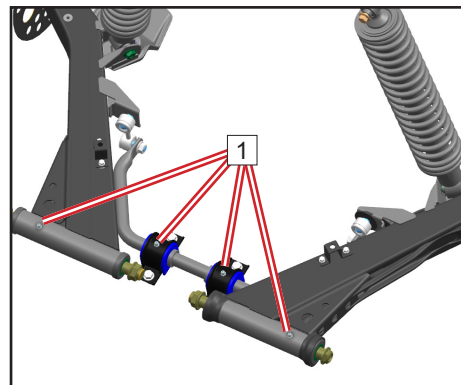
#### **NOTE**

Recommended lubricant: SAE 10W/30

### Suspension Pivot Lubrication

Lubricate the upper and lower pivots of the rear suspension:

- Add grease into the upper and lower pivot grease nipples (1) located at the frame with a grease gun until grease lightly flow from the bushing.





## Maintenance & Lubrication

### NOTE

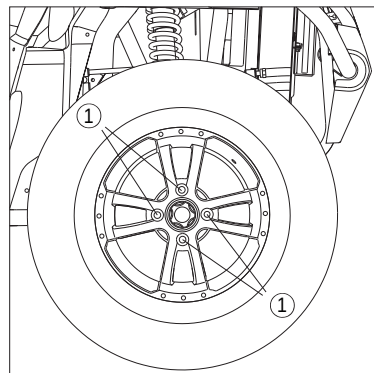
Recommended lubricant: Lithium soap based grease

### Wheel removal

1. Loosen the wheel nuts ①.
2. Elevate the ATV and place a suitable stand under the frame.
3. Remove the nuts from the wheel.
4. Remove the wheel.

Wheel installation:

1. Install the wheel and the nuts.



### NOTE

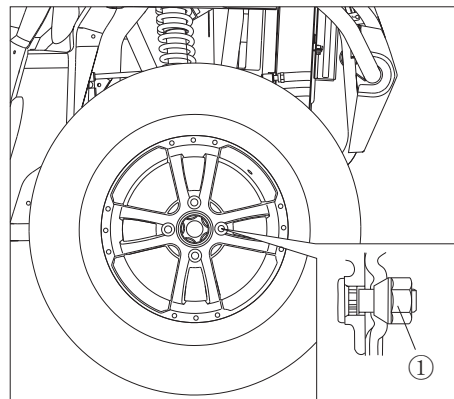
- Tapered nuts are used for both the front and rear wheels. Install the nut with its tapered side towards the wheel
- The arrow mark on the tire must point toward the rotating direction of the wheel.

## Maintenance & Lubrication

2. Lower the ATV so that the wheel is on the ground.
3. Tighten the wheel nuts to the specified torque.

### NOTE

Wheel nut torque: Front: 70 N·m~80 N·m  
Rear: 70 N·m~80 N·m



### ● Battery

This machine is equipped with service-needless battery. Therefore it is not necessary to check the electrolyte or add distilled water in the battery. If the battery seems to have discharged, consult your dealer.

### NOTE

Battery specification: 12V 30Ah

## **Maintenance & Lubrication**

### **⚠ WARNING**

Do not try to remove the sealing caps of the battery cells. You may damage the battery.

### **⚠ DANGER**

Avoid contact with skin, eyes or clothing. Always shield eyes when working near batteries. Keep out of reach of children.

Antidote:

EXTERNAL: Flush with water. INTERNAL: Drink large quantities of water or milk. Follow with milk of magnesia, beaten egg or vegetable oil. Get prompt medical attention.

EYES: Flush with water for 15 minutes and get prompt medical attention. Keep batteries away from sparks, flames, cigarettes or other sources of ignition. Ventilate when charging or using in a closed space.

Battery maintenance:

1. When the machine is not used for a month or longer, remove the battery and store it in a cool, dark place. Completely recharge the battery before reinstallation.
2. A special battery charger (constant voltage/ampere or constant voltage) is required for recharging battery. Use a conventional battery charger may shorten the battery life.
3. Always make sure the connections are correct when putting the battery back in the machine.

## Maintenance & Lubrication

### • Fuse replacement

1. The main fuse ①, fuse box ② and relay box ③ are located under front top cover.
2. If a fuse is blown, turn off the main switch and install a new fuse of the specified amperage. Then turn on the switches. If the fuse immediately blows again, consult your dealer.

### **Danger:**

Always use a fuse of the specified rating.  
Never use a material in place of the proper fuse.



## MAINTENANCE & LUBRICATION

### **⚠ WARNING**

To prevent accidental short-circuit, turn off the main switch when checking or replacing a fuse.

### **Headlight bulb replacement:**

**NOTE:** Both headlight and taillight assy are LED lights, which cannot be repaired if damaged or failed. Please have your dealer replace the entire assembly when the LED light is damaged or failed.

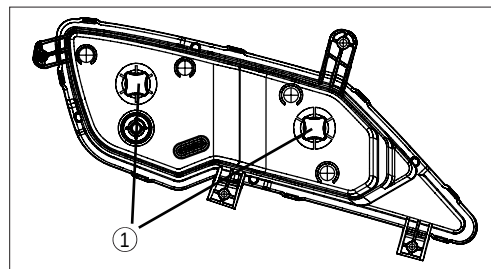


## Maintenance & Lubrication

- Headlight beam adjustment

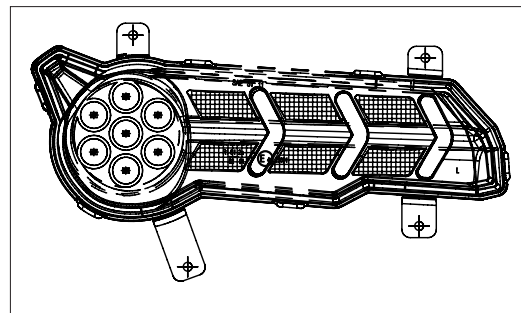
### ⚠ WARNING

It is advisable to have your dealer make this adjustment.  
Turn the adjusting screws ① can raise or lower the beam.



### Tail/brake light replacement:

Tail/brake light bulb is LED, it can not be replaced separately.  
Replace the whole light as necessary.



## Maintenance & Lubrication

### ● Front and rear suspension adjustment

The spring preload can be adjusted to suit the rider's weight and riding conditions.

Standard shock absorbers

#### NOTE

When adjusting the rear shock absorbers, the rear wheels need to be removed. Adjust the spring preload as follows.

To increase the spring preload, turn the adjusting ring in direction ① .

To decrease the spring preload, turn the adjusting ring in direction ② .

#### NOTE

A special wrench ① can be obtained at a dealer to make this adjustment.

Standard position: ③

A- Minimum (soft)

E- Maximum (hard)

#### ⚠ DANGER

Always adjust the shock absorbers on the left and right side to the same setting.



## Maintenance & Lubrication

### Optional shock absorber adjustment ( Front adjustment procedures )

Spring adjustment:

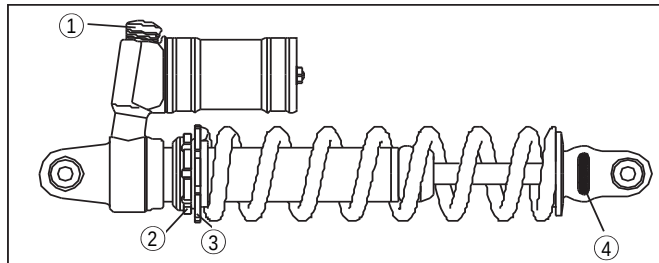
Loosen lock nut ②, Turn adjust nut ③ to proper hardness, then tighten lock nut ②.

Damping restore adjustment :

Turn adjuster ④ to SLOW side until to end and counter shifts, then turn to FAST side until suitable to your comfort.

Damping press adjustment :

Turn adjuster ① to HARD side and counter shifts, then to SOFT side until suitable to your comfort.



### Optional 2 shock absorber adjustment ( Rear adjustment procedures )

Spring adjustment:

Loosen lock nut ③, turn adjust nut ② to proper hardness, then tighten lock nut ③.

Damping restore adjustment :

Turn adjuster ① to SLOW side until to end and counter shifts, then turn to FAST side until suitable to your comfort.

Damping press is not possible to adjust.

## ⚠ATTENTION

After adjustment, keep left and right shock absorber balance.



## Vehicle immersion

### **WARNING**

If your vehicle becomes immersed, major engine damage can result if the machine is not thoroughly inspected. Take the vehicle to your dealer before starting the engine. For example, if engine is not properly handled after immersion, starting will damage the engine.

## **Clean & Storage**

### **Cleaning the ATV**

Keeping your ATV clean will not only improve its appearance, but it can also extend the life of various components. With a few precautions, your ATV can be cleaned much like an automobile.

### **Washing the ATV**

The best and safest way to clean your ATV is with a garden hose and a pail of mild soap and water. Use a professional type washing mitten, cleaning the upper body first and the lower parts last. Rinse with water frequently and dry with a chamois to prevent water spots.

### **NOTE**

If warning and safety labels are damaged, contact your dealer for replacement.

CFMOTO does not recommend the use of a high pressure type car wash system for washing your ATV.

If a high pressure system is used, exercise extreme care to avoid water damage to the wheel bearings, transmission seals, body panels, brakes, warning labels, air filter intake system and electric system, etc. Water is not allowed to enter into air filter.

### **NOTE**

Grease all fittings immediately after washing, and allow the vehicle to run for a while to evaporate any water that may have entered the engine or exhaust system.

## **Clean & Storage**

### **Waxing the ATV**

Your ATV can be waxed with any non–abrasive automotive paste wax. Avoid the use of harsh cleaners since they can scratch the body finish.

### **CAUTION**

Certain products, including insect repellants and chemicals, will damage plastic surfaces. Use caution when using these products near plastic surfaces.

### **CAUTION**

Starting the engine during the storage period will disturb the protective film created by fogging and damage could occur. Never start the engine during the storage period.

### **Clean the Exterior**

Make necessary repairs and then clean the ATV thoroughly with mild soap and warm water to remove all dirt and grime. Do not use harsh detergents or high pressure washers. Some detergents deteriorate rubber parts. Use dish soap type cleaners only. High pressure washers may force water past seals.

## **Clean & Storage**

### **Oil and Filter**

Warm the engine, then stop the engine and change the oil and filter.

### **⚠ CAUTION**

When drain out fuel in fuel pipe and air pipe, if dashboard says only one grid of fuel left, remove fuel pump connector to drain out fuel in fuel tank, or else, it may damage fuel pump.

### **Air Filter/ Air Box**

Inspect and clean or replace air filter. Clean the air box and drain the sediment tube.

### **Fluid Levels**

Inspect the following levels and change if necessary: front gear case, rear gear case, engine oil, brake fluid (change every two years or as required if fluid looks dark or contaminated) , coolant.

## **Clean & Storage**

### **Fog the Engine**

Remove spark plug and add 15mL~20mL SAE 15W/40 SG engine oil. To access the plug hole, use a section of clean hose and a small plastic squeeze bottle filled with the pre-measured amount of oil.

### **⚠ CAUTION**

Do this carefully! If you miss the plug hole, oil will drain from the spark plug cavity, and appear to be an oil leak.

Remove plug cap and turn crankshaft to make engine run slowly. Oil will be forced in and around the piston, piston rings and coating the cylinder with a protective film of fresh oil.

If you choose not to use the above way, perform the following procedure:

1. Support the front end of the vehicle so the engine is level or tilted slightly rearward.
2. Remove the spark plug, rotate the piston to BDC and pour approximately 15mL~20mL oil into cylinder.
3. Remove plug cap and turn crankshaft to make engine rotate slowly.
4. Turn engine several times to ensure the coverage of piston rings and cylinder walls.
5. Treat the fuel system with fuel stabilizer.
6. If fuel system fuel stabilizer is not used, fuel tank, fuel pipe and throttle body should be completely drained of gasoline. To eliminate any fuel remaining in the fuel pipe.

## **Clean & Storage**

### **Lubricate**

Inspect all cables and lubricate with cable lubricant. Follow lubrication guidelines in the maintenance section of the service manual to completely grease and lubricate the entire vehicle with All Season Grease.

### **Battery Storage**

Remove battery from the vehicle and ensure that it is fully charged before placing it in storage.

### **Engine Anti-Freeze**

Test engine coolant strength and change if necessary. Coolant should be replaced every two years.

### **Storage Area/Covers**

Set the tires to specified air pressure and support the ATV with tires 30mm ~ 40mm off the ground. Be sure the storage area is well ventilated and cover the machine with a ATV cover.

## **Clean & Storage**

### **NOTE**

Do not use plastic or coated materials. They do not allow enough ventilation to prevent condensation, and may promote corrosion and oxidation.

### **Transporting the ATV**

ATV cannot be transported in a stand up position, follow these procedures when transporting the vehicle:

1. Turn off the engine and remove the key to prevent loss during transporting.
2. Place the gear into any position except Park position, block front and rear wheels to prevent ATV rolling.
3. Fix both the front and rear frame of ATV at the same time, prevent ATV slide or move during transportation.
4. Be sure the fuel cap, oil cap and seat are installed correctly.

### **CAUTION**

Never transport ATV with gear in Park position, or else engine will be damaged.

## Troubleshooting

### Drive belt and cover problems

| Fail Reason                                                              | How To Avoid Failure                                                                                                                                                |
|--------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Driving the ATV onto a pickup or tall trailer in high range.             | Shift transmission to low gear during loading of the ATV to prevent belt burning.                                                                                   |
| Starting out going up a steep incline.                                   | When starting out on an incline, use low gear or dismount the ATV (after first applying the park brake) and perform the K-turn.                                     |
| Driving at low RPM or low ground speed(at approximately 5 km/h~10 km/h). | Drive at a higher speed or use low gear more frequently. The use of low gear is highly recommended for cooler CVT operating temperatures and longer component life. |
| Insufficient warm-up of ATVs exposed to low ambient temperatures.        | Warm the engine before driving, the belt will become more flexible and prevent belt burning.                                                                        |
| Slow and easy clutch engagement.                                         | Use the throttle quickly and effectively for efficient engagement.                                                                                                  |
| Towing/pushing at lowRPM/low ground speed.                               | Use low gear only.                                                                                                                                                  |
| Utility use/plowing snow, dirt, etc.                                     | Use low gear only.                                                                                                                                                  |



## Troubleshooting

| Fail Reason                                                     |                                                                                                                                                                                           |
|-----------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Stuck in mud or snow.                                           | Shift the transmission to low gear, and carefully use fast, aggressive throttle application to engage clutch. WARNING: Excessive throttle may cause loss of control and vehicle overturn. |
| Climbing over large objects from a stopped position.            | Shift the transmission to low gear, and carefully use fast, brief, aggressive throttle application to engage clutch. Excessive throttle may cause loss of control and vehicle overturn.   |
| Belt slippage from water or snow ingestion into the CVT system. | Remove the CVT cover , drain the water from CVT.                                                                                                                                          |
| Clutch malfunction.                                             | Contact your dealer for inspection of clutch components.                                                                                                                                  |

## Troubleshooting

### Engine doesn't turn over

| Fail Reason                | How To Avoid Failure                                                                                              |
|----------------------------|-------------------------------------------------------------------------------------------------------------------|
| Poor engine performance.   | Check for fouled plugs or foreign material in gas tank, fuel lines, or throttle. Contact your dealer for service. |
| Tripped circuit breaker    | Reset the breaker                                                                                                 |
| Low battery voltage        | Recharge battery to 12.8 VDC                                                                                      |
| Loose battery connections  | Check all connections and tighten                                                                                 |
| Loose solenoid connections | Check all connections and tighten                                                                                 |

### Engine Pings or Knocks

| Fail Reason                          | How To Avoid Failure              |
|--------------------------------------|-----------------------------------|
| Poor quality or low octane fuel      | Replace with recommended fuel     |
| Incorrect ignition timing            | See your dealer                   |
| correct spark plug gap or heat range | Set gap to specs or replace plugs |

## Troubleshooting

### Engine Stops or loses power

| Fail Reason       | How To Avoid Failure                                                                   |
|-------------------|----------------------------------------------------------------------------------------|
| Overheated engine | Clean radiator screen and core if equipped<br>Clean engine exterior<br>See your dealer |

## Troubleshooting

### Engine Turns Over, Fails to Start

| <b>Fail Reason</b>                  | <b>How To Avoid Failure</b>                |
|-------------------------------------|--------------------------------------------|
| Out of Fuel                         | Refuel                                     |
| Clogged fuel valve or filter        | Inspect and clean or replace               |
| Water is present in fuel            | Drain the fuel system and refuel           |
| Fuel valve is out of use            | Replace                                    |
| Old or non-recommended fuel         | Replace with new fuel                      |
| Fouled or defective spark plug(s)   | Inspect plug(s), replace if necessary      |
| No spark to spark plug              | Inspect plug(s) , verify stop switch is on |
| Crankcase filled with water or fuel | Immediately see your dealer                |
| Overuse of choke                    | Inspect, clean and/or replace spark plugs  |
| Clogged fuel injector               | Clean or replace new fuel injector         |
| Low battery voltage                 | Recharge battery to 12.8 VDC               |
| Mechanical failure                  | See your dealer                            |

## **Troubleshooting Engine Backfires**

| <b>Fail Reason</b>                     | <b>How To Avoid Failure</b>               |
|----------------------------------------|-------------------------------------------|
| Weak spark from spark plugs            | Inspect, clean and/or replace spark plugs |
| Incorrect spark plug gap or heat range | Set gap to specs or replace plugs         |
| Old or non-recommended fuel            | Replace with new fuel                     |
| Incorrectly installed spark plug wires | See your dealer                           |
| Incorrect ignition timing              | See your dealer                           |
| Mechanical failure                     | See your dealer                           |

## **Engine Runs Irregularly, Stalls or Misfires**

| <b>Fail Reason</b>                     | <b>How To Avoid Failure</b>               |
|----------------------------------------|-------------------------------------------|
| Fouled or defective spark plugs        | Inspect, clean and/or replace spark plugs |
| Worn or defective spark plug wires     | See your dealer                           |
| Incorrect spark plug gap or heat range | Set gap to specs or replace plugs         |
| Loose ignition connections             | Check all connections and tighten         |
| Water present in fuel                  | Replace with new fuel                     |
| Low battery voltage                    | Recharge battery to 12.8 VDC              |

## Troubleshooting

### Engine Runs Irregularly, Stalls or Misfires

| <b>Fail Reason</b>                       | <b>How To Avoid Failure</b>               |
|------------------------------------------|-------------------------------------------|
| Kinked or plugged fuel vent line         | Inspect and replace                       |
| Incorrect fuel                           | Replace with recommended fuel             |
| Clogged air filter                       | Inspect and clean or replace              |
| Reverse speed limiter malfunction        | See your dealer                           |
| Electronic throttle control malfunction  | See your dealer                           |
| Other mechanical failure                 | See your dealer                           |
| Possible Lean or Rich Fuel Mixture Cause | Solution                                  |
| Low or contaminated fuel                 | Add or change fuel, clean the fuel system |
| Low octane fuel                          | Replace with recommended fuel             |
| Clogged fuel filter                      | Replace filter                            |
| Incorrect jetting                        | See your dealer                           |
| Overuse of choke                         | Inspect, clean and/or replace spark plugs |
| Fuel is very high octane                 | Replace with lower octane fuel            |

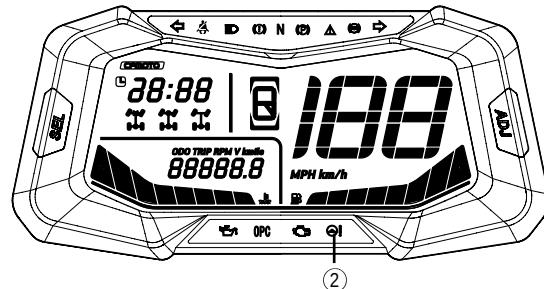
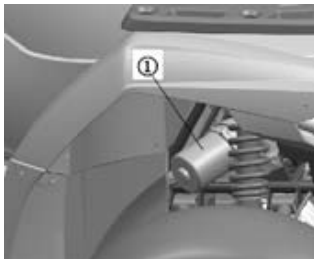
## Troubleshooting

### Engine Stops or Loses Power

| Fail Reason                             | How To Avoid Failure                      |
|-----------------------------------------|-------------------------------------------|
| Out of fuel                             | Refuel                                    |
| Kinked or plugged fuel vent line        | Inspect and replace                       |
| Water present in fuel                   | Replace with new fuel                     |
| Overuse of choke                        | Inspect, clean and/or replace spark plugs |
| Fouled or defective spark plugs         | Inspect, clean and/or replace spark plugs |
| Worn or defective spark plug wires      | See your dealer                           |
| Incorrect spark plug gap or heat range  | Set gap to specs or replace plugs         |
| Loose ignition connections              | Check all connections and tighten         |
| Low battery voltage                     | Recharge battery to 12.8 VDC              |
| Clogged air filter                      | Inspect and clean or replace              |
| Reverse speed limiter malfunction       | See your dealer                           |
| Electronic throttle control malfunction | See your dealer                           |
| Other mechanical failure                | See your dealer                           |

## EPS system

EPS indicator on the Dashboard will be on when EPS system ① is equipped to the vehicle. Normally, EPS indicator will be on ② after ignition switch is turned to ON but EPS will not work. When the engine is started, EPS indicator will be off and EPS starts to function.



## Trouble Code

Each trouble code consists of 2 digits, denoted by the times of long flash and short flash of EPS indicator.

Times of long flash represent the tens digit;

Times of short flash represent the single digit;

Duration of long flash: 2 sec.

Duration of short flash: 1 sec.

Flash interval: 1 sec.

The flash cycle will repeat after EPS indicator turns off for 3 seconds.

**NOTE :** In case of an EPS failure, do not disassemble the EPS system. Check the wiring for any loosening connection. Otherwise please contact an authorized dealer for service.



## EPS fault diagnosis and solution

| Ref No | Trouble shooting                                       | Possible causes                                                             | Repair procedures                                        |
|--------|--------------------------------------------------------|-----------------------------------------------------------------------------|----------------------------------------------------------|
| 1      | No steering assist to handlebar                        | Improper plug connection                                                    | Check the plugs and connections                          |
|        |                                                        | Burnt fuse                                                                  | Replace fuse(30A)                                        |
|        |                                                        | Failure of Controller, Motor or sensor                                      | Contact authorized dealer and replace the parts.         |
| 2      | Asymmetrical steering assist to left and right turning | Improper voltage output from sensor                                         | Contact authorized dealer for adjustment or replacement  |
|        |                                                        | Controller, Motor or sensor break down                                      | Contact authorized dealer and replace the parts.         |
| 3      | Steering swing                                         | Wrong connections at motor terminals                                        | Change the terminal connection of the red and black wire |
|        |                                                        | Controller or sensor break down                                             | Contact authorized dealer for parts and replacement      |
| 4      | Low power steering assist                              | Low battery                                                                 | Recharge or replace battery                              |
|        |                                                        | Motor break down.                                                           | Contact authorized dealer for replacement                |
|        |                                                        | Low pressure with Front tires                                               | Inflate tires to the required pressure                   |
| 5      | Noise from system                                      | Motor break down.                                                           | Contact authorized dealer for replacement                |
|        |                                                        | Steering system parts wear out and big clearance exist.                     | Replace the related parts.                               |
|        |                                                        | Improper assembly of steering column or meichanical steering assembly parts | Check and tighten all of bolts.                          |

## Technical specifications

| Items                                                 | Specifications                                       |
|-------------------------------------------------------|------------------------------------------------------|
|                                                       | CF800AU-2A                                           |
| Overall Length                                        | 2310mm                                               |
| Overall Width                                         | 1250mm                                               |
| Overall Height                                        | 1420mm                                               |
| Wheel Base                                            | 1480mm                                               |
| Minimum ground clearance                              | 285mm                                                |
| Min. turning radius                                   | 7600mm                                               |
| Basic weight: (With engine oil and full fuel in tank) | 447kg                                                |
| Engine model and type                                 | 2V91W-A                                              |
| Type                                                  | V-twin cylinder、4-stroke、liquid-cooled、8 valves、SOHC |
| Bore×Stroke                                           | 91mm×61.5mm                                          |
| Displacement                                          | 800mL                                                |
| Compression ratio                                     | 10.3 :1                                              |
| Starting type                                         | Electric start                                       |
| Maximum speed                                         | 90km/h                                               |

## Technical specifications

| Items                                                                                          | Specifications                      |
|------------------------------------------------------------------------------------------------|-------------------------------------|
| Engine oil:<br>Type<br>Engine oil volume:<br>Total engine oil volume<br>Oil change with filter | SAE 15W/40 SG<br><br>2.6 L<br>2.5 L |
| Transmission oil:<br>Type<br>Periodic oil change                                               | SAE 75W/90 GL-5<br>0.6L             |
| Rear axle oil<br>Type<br>Volume<br>Periodic oil change                                         | SAE 80W/90 GL-5<br><br>0.40 L       |
| Front axle oil:<br>Type<br>Volume<br>Periodic oil change                                       | SAE 80W/90 GL-5<br><br>0.23 L       |
| Air filter                                                                                     | Sponge and paper filter element     |

## Technical specifications

| Items               |                  | Specifications                                     |
|---------------------|------------------|----------------------------------------------------|
| Fuel type           |                  | 95(RON) or E5                                      |
| Fuel tank capacity  |                  | 30 L                                               |
| Fuel reverse amount |                  | 4.0 L                                              |
| Spark plug:         |                  |                                                    |
| Type                |                  | DCPR8E (NGK)                                       |
| Spark plug gap      |                  | 0.8mm~0.9mm                                        |
| Transmission        | Clutch type      | Dry and centrifugal automatic                      |
|                     | Transmission     | ( CVT ) + Gear shift                               |
|                     | Gear shift/order | Manually/L—H—N—R—P                                 |
|                     | CVT ratio        | 2.88~0.70                                          |
|                     | Gear ratio       | Final                                              |
|                     |                  | 1.333 (20/15)                                      |
|                     |                  | Secondary                                          |
|                     | Total            |                                                    |
|                     |                  | L: 43/17 = 2.529 H: 32/28 = 1.143 R: 29/13 = 2.231 |
| Chassis             |                  |                                                    |
| Frame               |                  | Steel tube                                         |
| Caster angle        |                  | 9° 52'                                             |
| Kingpin offset      |                  | 25.5 mm                                            |

## Technical specifications

| Items                                                                                      | Specifications                                                                 |
|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------|
| Tire: Type<br>Size       Front tire<br>Rear tire                                           | Tubeless<br>26 × 8–14 / 26 × 9–14<br>26 × 10–14 / 26 × 11–14                   |
| Tire pressure:<br>Front tire<br>Rear tire                                                  | 45 kPa<br>45 kPa                                                               |
| Brake system:<br>Front brake       Type<br>Operation<br>United brake     Type<br>Operation | Double disc<br>Operated by right hand<br>Double disc<br>Operated by right foot |
| Suspension:<br>Front suspension<br>Rear suspension                                         | Double A-arm and independent<br>Double A-arm and independent                   |

## Technical specifications

| Items                                                          | Specifications                                                                                            |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| Shock absorber:<br>Front shock absorber<br>Rear shock absorber | Coil spring/Oil damper or Coil spring + Gas/Oil damper<br>Coil spring/Oil damper or Coil spring + Gas/Oil |
| Wheel travel:<br>Front wheel travel<br>Rear wheel travel       | 180 mm<br>190 mm                                                                                          |
| Electric system<br>Ignition<br>Flywheel                        | ECU<br>A.C magneto                                                                                        |
| Headlight type<br>Head light                                   | LED 12V 7W×2                                                                                              |
| Front position light                                           | LED 12V 3W ×2                                                                                             |
| Tail light/Brake light                                         | LED 12V/3W×2 12V/18W×2                                                                                    |
| Turn light                                                     | LED 12V 1.2W                                                                                              |
| Battery capacity                                               | 12V30Ah                                                                                                   |

## Technical specifications

| Items            |                             | Specifications |
|------------------|-----------------------------|----------------|
| <b>Dashboard</b> | “N” indicator light         | Green/ LED     |
|                  | “R” indicator               | LCD            |
|                  | “P” indicator               | LCD            |
|                  | “H” indicator               | LCD            |
|                  | “L” indicator               | LCD            |
|                  | Dashboard light             | LCD            |
|                  | Turn indicator light        | Green/ LED     |
|                  | Hi-beam indicator light     | Blue/ LED      |
|                  | Overriding indicator light  | Red/ LED       |
|                  | 2WD/4WD indicator           | LCD            |
|                  | Water temp. indicator       | LCD            |
|                  | Fuel indicator              | LCD            |
|                  | EFI trouble indicator light | LED            |

## EPS specification

| Ref No | Item                             | Specification                                  |
|--------|----------------------------------|------------------------------------------------|
| 1      | Motor type                       | DC Permanent Magnet Motor                      |
| 2      | Rated voltage                    | 12 V                                           |
| 3      | Max. Input Current to Controller | 35 A                                           |
| 4      | Motor Power                      | 380 W                                          |
| 5      | Max. Output Torque               | 4 N·m                                          |
| 6      | Reducer Type                     | Worm reducer                                   |
| 7      | Reduction Ratio                  | 21                                             |
| 8      | Max. Output Torque from Driver   | 80 N·m                                         |
| 9      | Torque Sensor                    | Non-contact magnetic potentiometer             |
| 10     | Torsion Rod Rigidity             | 8 N·m                                          |
| 11     | Operating Angle Of Torque Sensor | $\pm 3^{\circ}$                                |
| 12     | Operating Temp.Range Of EPS Assy | $-40^{\circ}\text{C} \sim +60^{\circ}\text{C}$ |
| 13     | Protection Degree Of EPS Assy    | Ip67                                           |



## Periodic Maintenance Schedule and Icon Key

### **WARNING**

Improperly performing the procedures marked with a ■ could result in component failure and lead to serious injury or death. Have an authorized dealer perform these services.

### **RECOMMENDED LUBRICATION**

Check all components at the intervals outlined in the Periodic Maintenance Schedule. Items not listed in the schedule should be lubricated at the general lubrication interval.

### **KEY POINTS OF LUBRICATION CHART**

- Change Lubricants more often under severe use, such as wet or dusty conditions.
- Use All Season Grease on pivot points.
- Lubricate every 500km (310.6 miles), before long periods of storage, after pressure washing, or after submerging drivetrain.

| Items               | Lube              | Methods                                                              |
|---------------------|-------------------|----------------------------------------------------------------------|
| Engine Oil          | SAE15W/40 SG      | Unscrew, wipe, insert and remove dipstick to check level             |
| Transmission oil    | SAE75W/90 GL-5    | Unscrew, wipe, insert and remove dipstick to check level             |
| Brake Fluid         | DOT4              | Keep level between upper and lower lines                             |
| Front Gear Case Oil | SAE80W/90 GL-5    | Keep level at the filler rim                                         |
| Rear Gear Case Oil  | SAE80W/90 GL-5    | Keep level at the filler rim                                         |
| Grease Pivot Points | All Season Grease | Grease gun - Pump grease until it flows lightly from the pivot point |

## Maintenance Chart Key

- Perform the procedure more often on vehicles subjected to severe use.  
Have an authorized dealer perform repairs that involve this component.
- ◆ Emission-related components.

| Item |                          | Maintenance Interval<br>(Whichever comes first) |          |           | Remarks                        |
|------|--------------------------|-------------------------------------------------|----------|-----------|--------------------------------|
|      |                          | HOURS                                           | CALENDAR | KM(MILES) |                                |
| ■    | Steering                 |                                                 | Pre-Ride |           | Make adjustments as needed.    |
| ►    | Front suspension         |                                                 | Pre-Ride |           |                                |
| ►    | Rear suspension          |                                                 | Pre-Ride |           |                                |
|      | Tires                    |                                                 | Pre-Ride |           |                                |
| ►    | Break fluid level        |                                                 | Pre-Ride |           |                                |
| ►    | Brake lever/pedal travel |                                                 | Pre-Ride |           |                                |
|      | Brake system             |                                                 | Pre-Ride |           |                                |
|      | Wheels/fasteners         |                                                 | Pre-Ride |           |                                |
|      | Frame fasteners          |                                                 | Pre-Ride |           |                                |
| ►    | Engine oil level         |                                                 | Pre-Ride |           |                                |
| ►    | Air Inlet, Air filter    |                                                 |          |           | Inspect and clean if necessary |
| ►    | Air box sediment tuber   |                                                 |          |           | Drain Deposits when visible    |

|   |                               |     |         |           |                                                                                |
|---|-------------------------------|-----|---------|-----------|--------------------------------------------------------------------------------|
|   | Coolant                       | 50h | Daily   | 1500(932) | Change every 2 years or 6000km/200h.<br>Initial check: after 20h or 750km.     |
|   | Headlight / tail light        |     | Daily   |           | Check operation; apply dielectric grease if replace.                           |
| ◆ | Air filter,element            | 50h |         | 1500(932) | Inspect, Clean every 1000km or 100hours.<br>Initial replacement: 750km or 20h. |
|   | CVT outlet pipe               |     | Weekly  |           | Drain water as needed, check often if operating in wet condition.              |
|   | Brake pad wear                | 10h | Monthly | 100(62)   | Inspect periodically                                                           |
|   | Battery                       | 20h | Monthly | 200(124)  | Check terminals;clean;test                                                     |
| ▶ | Front gear case oil           | 25h | Monthly | 250(155)  | Inspect level;change yearly                                                    |
| ▶ | Rear gear case oil            | 25h | Monthly | 250(155)  | Inspect level;change yearly                                                    |
| ▶ | Transmission oil              | 25h | Monthly | 250(155)  | Inspect level;change yearly                                                    |
| ▶ | Engine oil change (break- in) | 20h |         | 250(155)  | Change                                                                         |
| ▶ | General lubrication           | 50h | 3M      | 500(310)  | Lubricate all fittings,pivots,cables,ect.                                      |

|    |                        |      |     |            |                                                                     |
|----|------------------------|------|-----|------------|---------------------------------------------------------------------|
|    | Steering knuckle       | 50h  | 6M  | 500(310)   | Lubricate                                                           |
| ■  | Steering handlebar     | 50h  | 6M  | 500(310)   | Lubricate                                                           |
| ►  | Front suspension       | 50h  | 6M  | 500(310)   | Lubricate                                                           |
|    | Rear suspension        | 50h  | 6M  | 500(310)   | Lubricate                                                           |
|    | Gearshift              | 28h  | 1M  | 500(310)   | Inspect;adjust;lubricate;                                           |
| ■  | Throttle Cable/ Switch | 50h  | 6M  | 500(310)   | Inspect;adjust.lubricate; replace if necessary                      |
|    | Drive belt             | 50h  | 6M  | 1500(932)  | Inspect ; adjust; replace if necessary.<br>Replace for every 3000km |
|    | Cooling system         | 50h  | 6M  | 500(310)   | Inspect coolant strenght seasonally;<br>pressure test system yearly |
| ►  | Engine oil change      | 100h | 12M | 3000(1864) | Perform a break-in oil change at<br>25 hours/750km                  |
| ►◆ | Fuel hoses             | 100h | 12M | 1000(621)  | Inspect routing, condition, Replace<br>high pressure fuel hose      |

|     |                          |      |     |            |                                                                                                                 |
|-----|--------------------------|------|-----|------------|-----------------------------------------------------------------------------------------------------------------|
| ■ ♦ | Valve clearance          | 100h | 12M | 3000(1864) | Inspect; Adjust, Initial :750km or 20h                                                                          |
| ■   | Fuel system              | 100h | 12M | 1000(621)  | Inspect cap of fuel tank, fuel pump and relay                                                                   |
| ■   | Oil filter               | 100h | 12M | 3000(1864) | Initial change:750km or 20h                                                                                     |
| ▶   | Radiator                 | 200h | 24M | 3000(1864) | Inspect; Clean external surfaces                                                                                |
| ▶   | Cooling hoses            | 100h | 12M | 1000(621)  | Inspect ;Initial:300km or 10h                                                                                   |
| ▶   | Engine mounts            | 100h | 12M | 3000(1864) | Inspect. Initial: 300km or 10h                                                                                  |
|     | Exhaust pipe and muffler | 100h | 12M | 1000(621)  | Inspect                                                                                                         |
|     | Ignition coil            | 100h | 12M | 1000(621)  | Inspect and replace as needed                                                                                   |
|     | ECU                      | 100h | 12M | 1000(621)  | Inspect and replace as needed                                                                                   |
|     | Wirings and cables       | 100h | 12M | 1000(621)  | Inspect for wear, routing, security;<br>apply dielectric grease to connections<br>subjected to water, mud, etc. |

|   |                                   |      |     |            |                                                     |
|---|-----------------------------------|------|-----|------------|-----------------------------------------------------|
|   | Clutches(drive and driven pulley) | 100h | 12M | 3000(1864) | Inspect; clean; replace worn parts                  |
|   | Wheel bearings                    | 100h | 12M | 1600(994)  | Inspect and replace as necessary                    |
|   | Brake fluid                       | 200h | 24M | 2000(1242) | Change every two years                              |
| ◆ | Spark plug                        | 100h | 12M | 3000(1864) | Initial:750km or 20h. Replace every 6000km          |
|   | Idle condition                    |      |     |            | Inspect every component 1300±130rpm                 |
|   | Toe adjustment                    |      |     |            | Inspect periodically;adjust when parts are replaced |
|   | Auxiliary brake                   |      |     |            | Inspect daily; adjust as necessary                  |
|   | Headlight aim                     |      |     |            | Adjust as needed                                    |



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